

FIG. 1

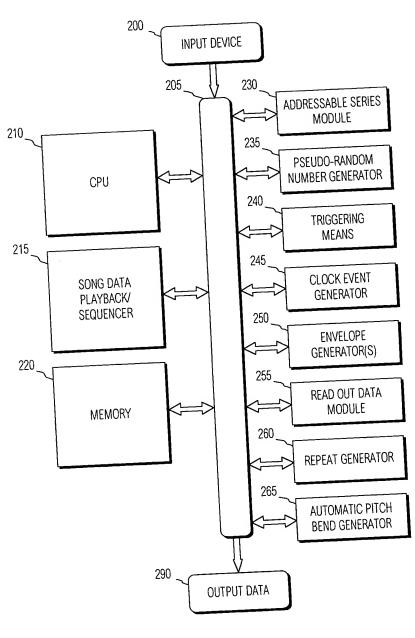
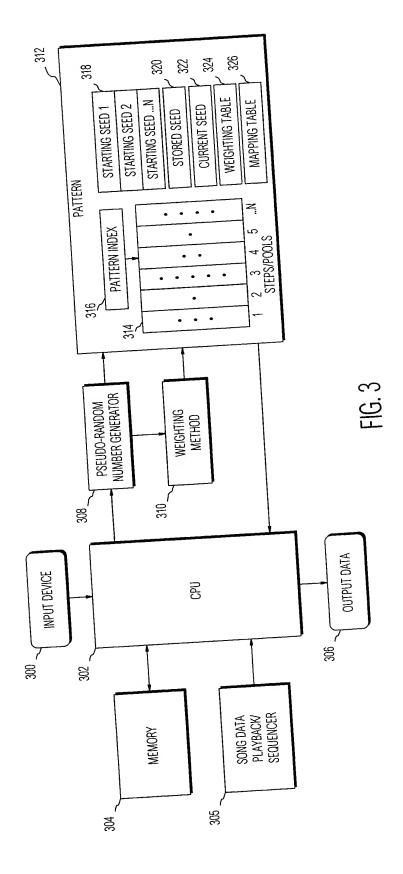
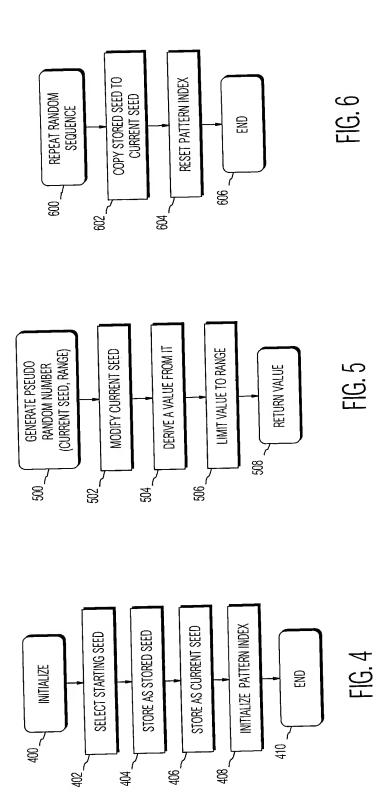
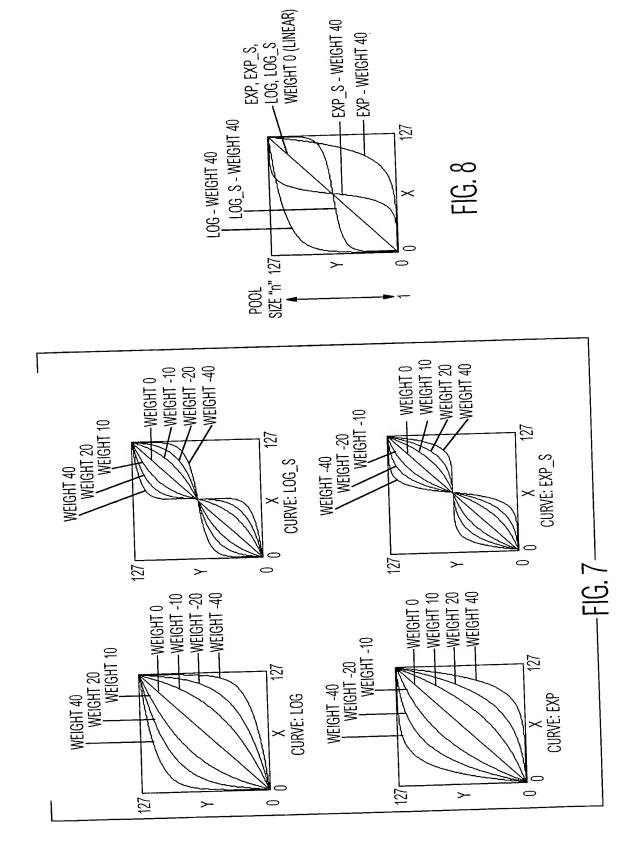


FIG. 2



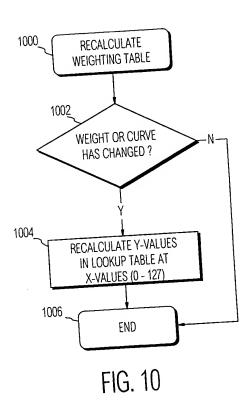


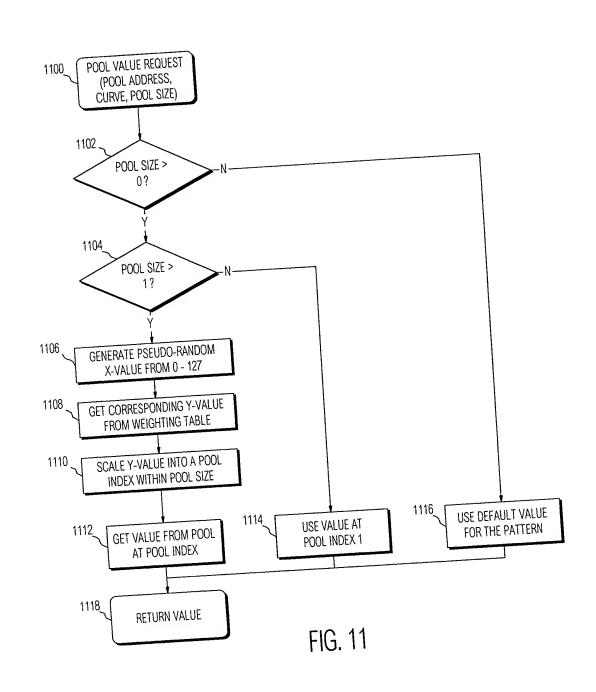


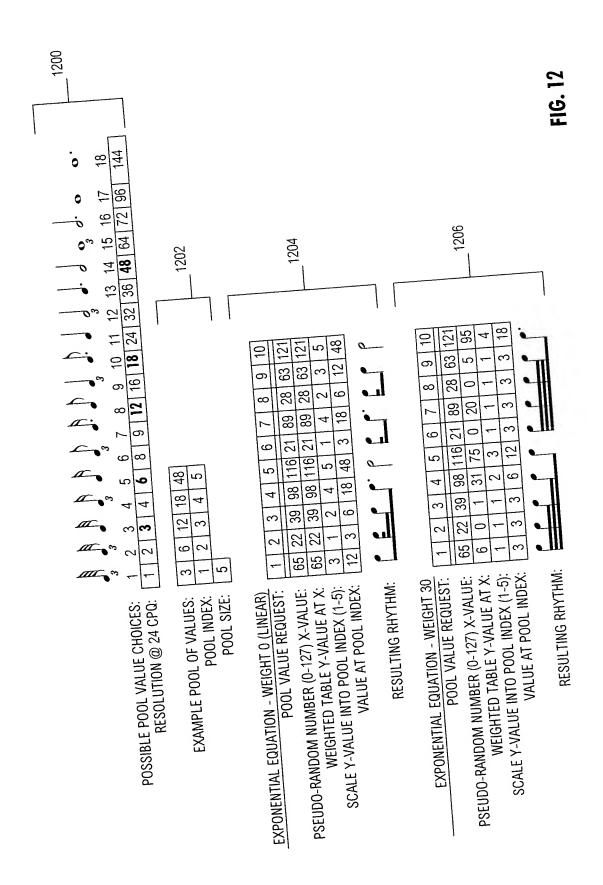
		X Y	Χ	
X Y	X Y	64 6	96	29
0 0	32 1	65 6	97	30
1 0	33 1	66 6	98	31
2 0	34 1	67 7	99	33
3 0	35 1	68 7	100	35
4 0	36 1	69 7	101	36
5 0	37 1	70 8	102	38
6 0	38 1	71 8	103	40
7 0	L	72 9	104	42
8 0		73 9	105	44
9 0		74 10	106	
10 0	\ '_ _+	75 10	107	
11 0	43 2	76 11	108	
12 0	44 2 45 2	77 11	109	
13 0	46 2	78 12	111	
14 0	47 2	79 12	11	
15 0	48 2	80 13	11	
16 0	49 2	81 14	11	
17 0	50 3	82 14	11	
L	50 3 51 3	83 15	11	
L	52 3	84 16		16 75 17 78
20 0	53 3	85 17		
22 0	53 3 54 3 55 3	86 17		
23 0	55 3	87 18		19 86 20 91
24 0	56 4	88 19		21 95
25 0	57 4	89 20		122 100
26 0	58 4	90 21		123 105
27 0	59 4	91 22		124 110
28 0	60 5	92 23		125 115
29 0	61 5	93 25	-	126 121
30 0	62 5	94 26 95 27	 	127 127
31 1	63 5	30 21	L	

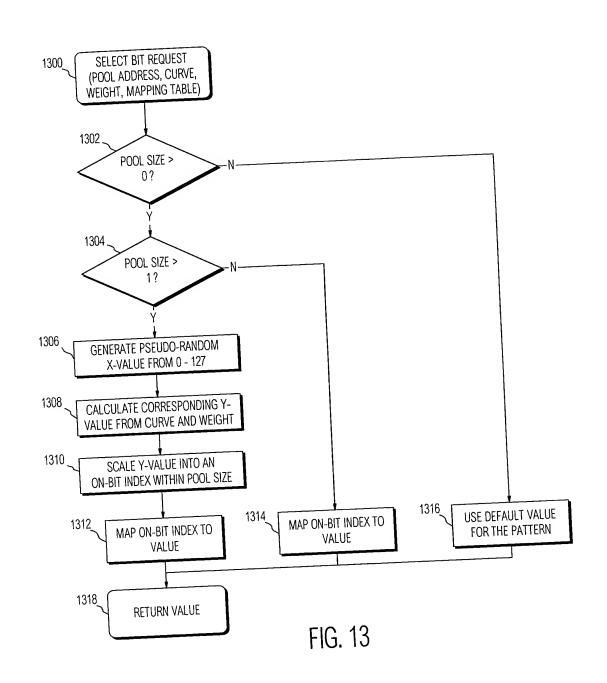
EXPONENTIAL EQUATION - WEIGHT 30

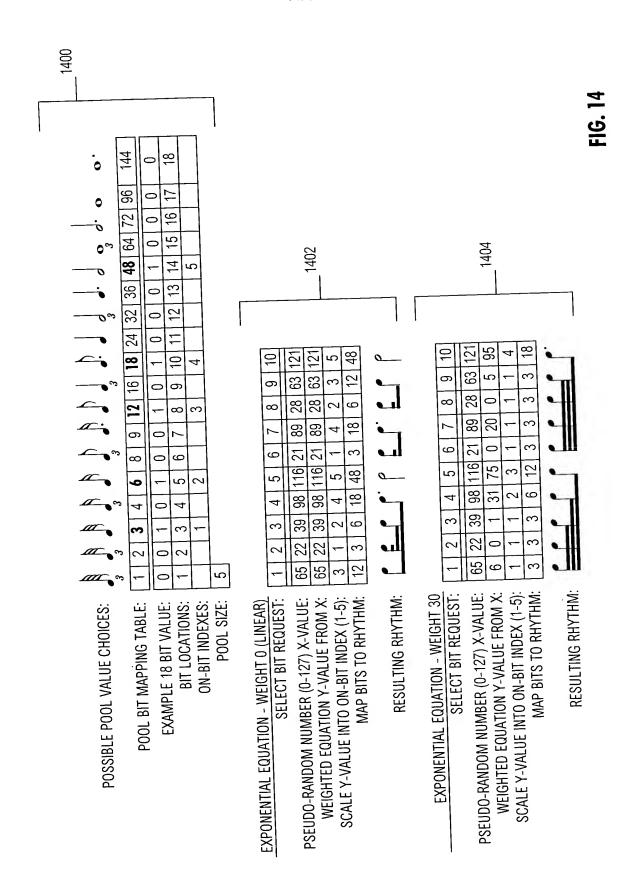
FIG. 9









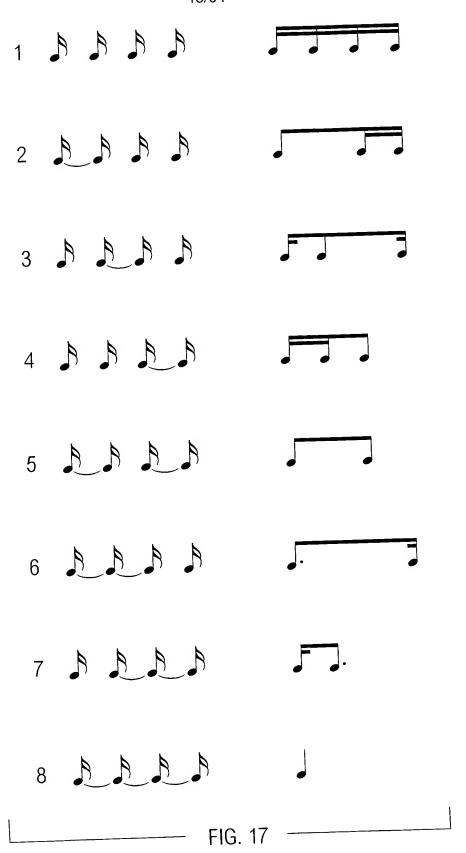


STEP		
1	RHYTHM VALUE	TIE FLAG
2	RHYTHM VALUE	TIE FLAG
3	RHYTHM VALUE	TIE FLAG
3 4	RHYTHM VALUE	TIE FLAG
•		TIF FLAG
N	RHYTHM VALUE	II IIL I LINO

FIG. 15

STEP RHYTHM VALUE TIE FLAG 1 16TH X FIG. 17	7
'	7
16TH X FIG. 17	•
/ 1 10111	
3 16TH 11X	
4 16TH X	
5 16TH	
6 16TH X	
7 16TH X	
8 16TH X	
g 16TH	
10 16TH X	
11 16TH X	
12 16TH X	
13 32ND	
14 32ND X	
15 32ND X	
16 32ND X	
17 32ND X	
18 32ND X	
19 32ND X	
20 32ND X	

FIG. 16



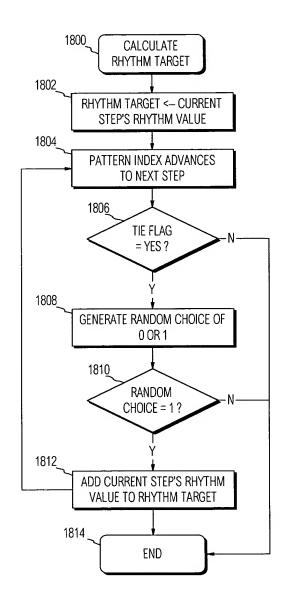
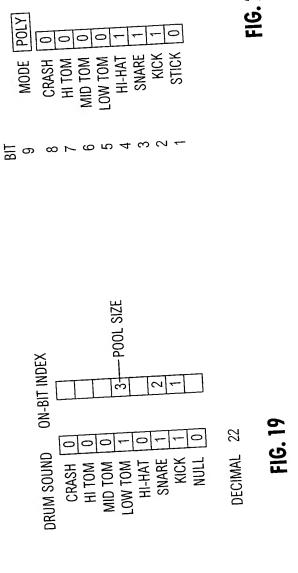
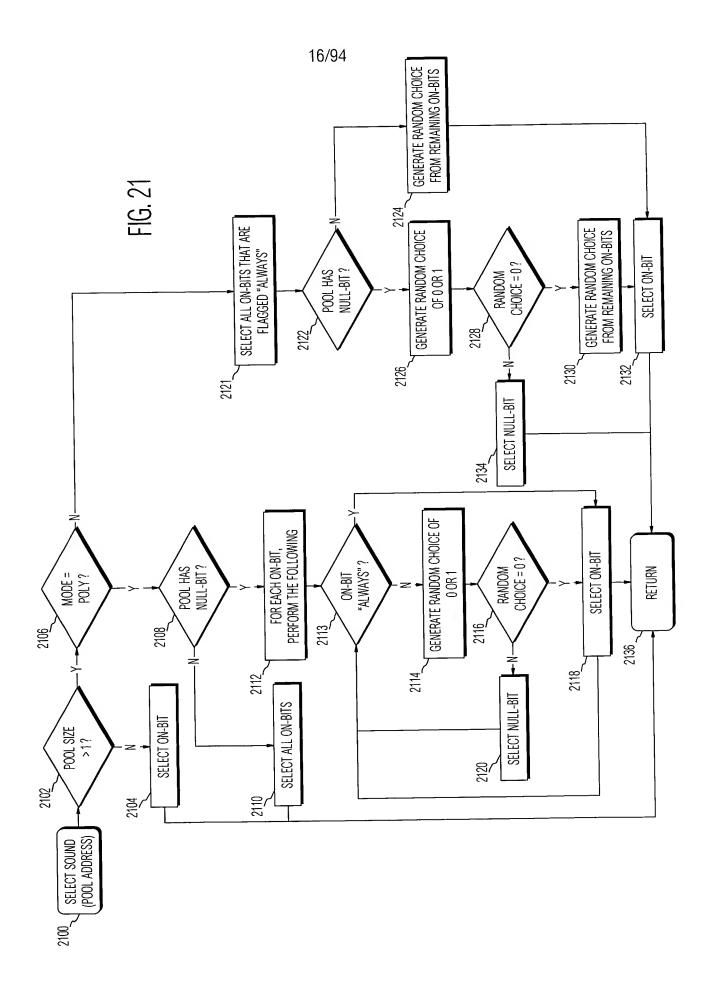
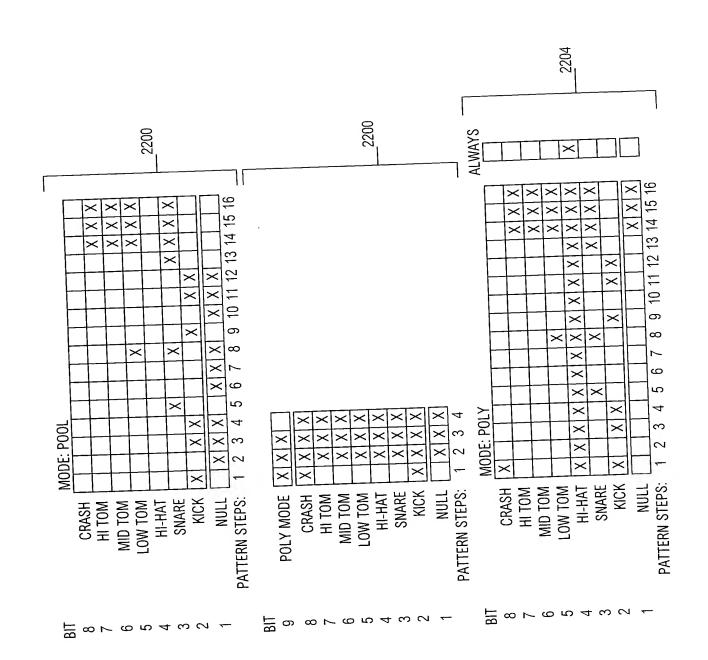


FIG. 18







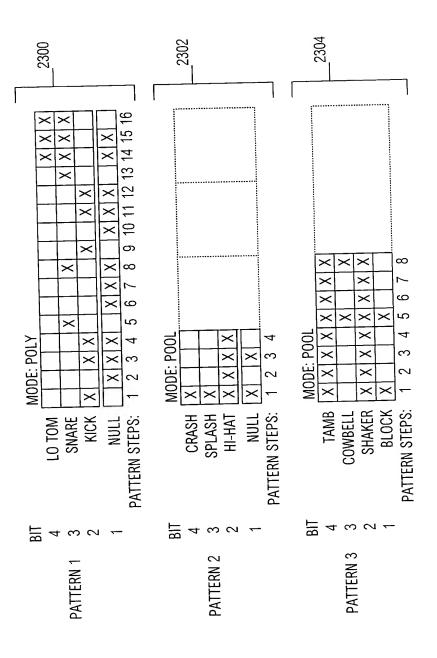
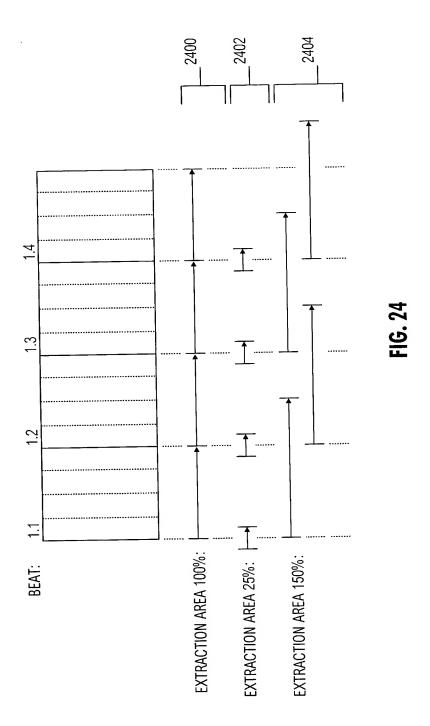
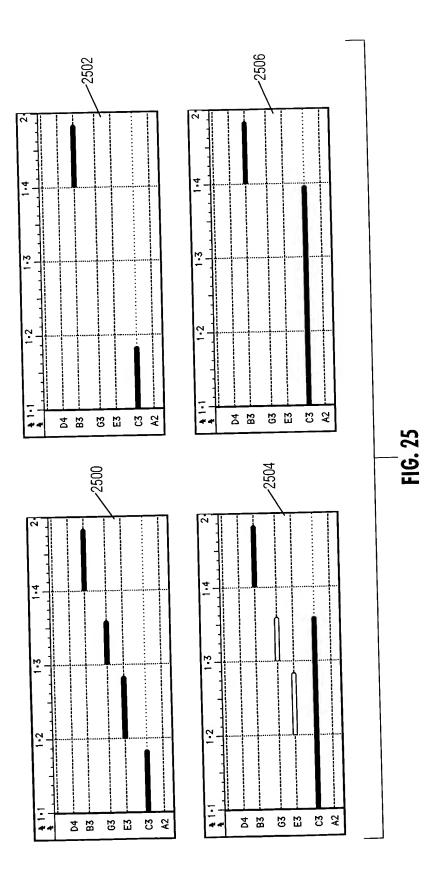
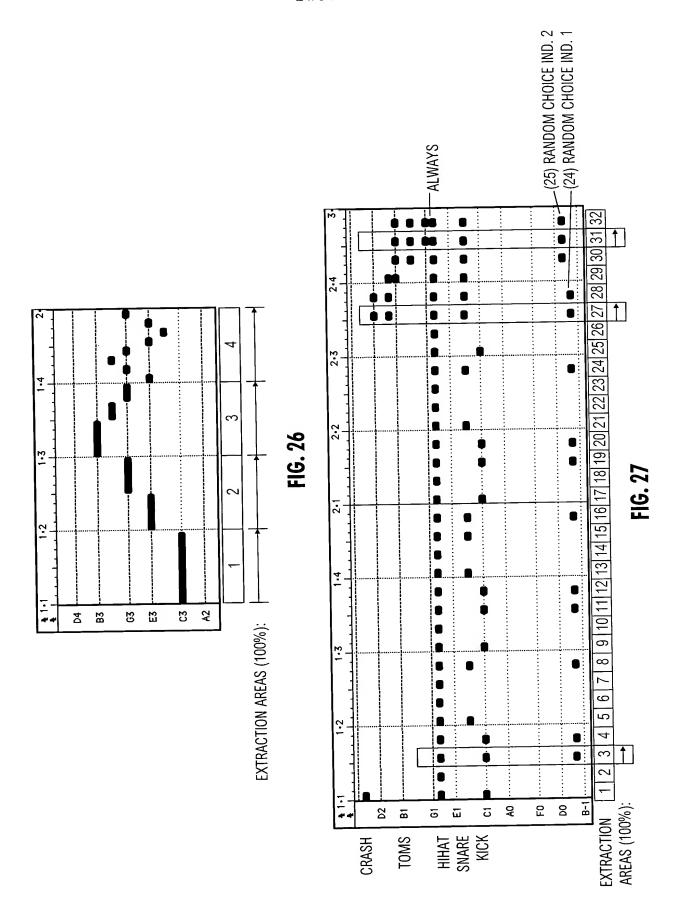


FIG. 23



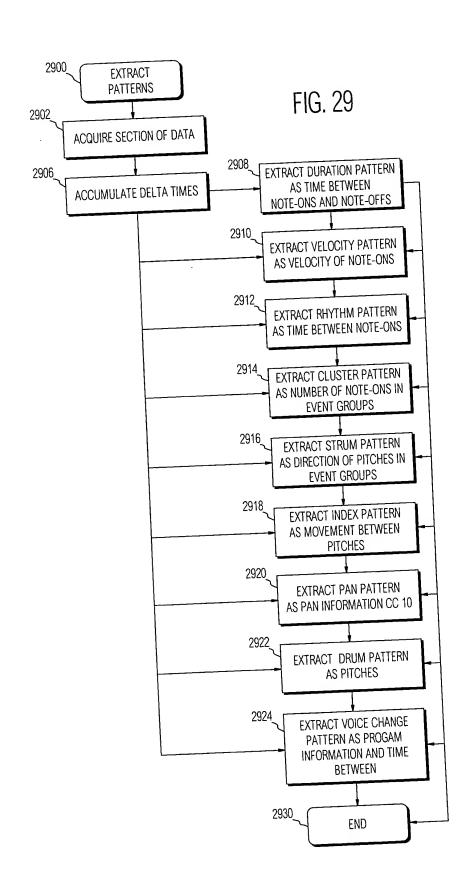




0 0 PRG CHANGE 0 117 21 EVENT GROUPS 0 0 NOTE-ON 0 60 117 10 0 11 1 1 NOTE-ON 0 67 127 127 10 0 11 1 1 NOTE-ON 0 64 100 100 10 32 42 48 48 NOTE-ON 0 60 48 0* 49 10 32 1 49 49 NOTE-ON 0 67 67 0* 40 0* 40 2 2 51 40 NOTE-ON 40 64 40 0* 40 0* 40 2 2 53 40 NOTE-ON 40 62 40 0* 40 0* 40 0* 40 0* 40 19 72 40 NOTE-ON 40 62 40 0* 40 0	DELTA	ACCUM_DELTA	EVENT	PITCH	VELOCITY	CONTROL #	VALUE]
0 0 NOTE-ON 60 117 0 GROUPS 0 0 CONTROLLER 10 0 -1 1 1 NOTE-ON 67 127 -1 -1 3 4 NOTE-ON 64 100 -1 <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td>21</td> <td>l .</td>		12					21	l .
0 0 CONTROLLER 10 0 1 1 1 NOTE-ON 67 127 10 0 1 3 44 NOTE-ON 64 100 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 32 10 44 10 32 10 44 10 32 10 44 10 42 22 21 21 21 22 </td <td>-</td> <td>0</td> <td>NOTE-ON</td> <td>60</td> <td>117</td> <td></td> <td></td> <td>GROUPS</td>	-	0	NOTE-ON	60	117			GROUPS
10		0	CONTROLLER			10	0 +	
10	1	1	NOTE-ON	67	127			
42 48 NOTE-ON 60 0* 32 32 32 32 32 32 32 32 33 32 33 34 33 34 33 4 33 33 4 33 4 33 4 33 4 33 4 33 4 4 33 4	3-	4	NOTE-ON	64	100			
0 48 CONTROLLER 10 32 1 49 NOTE-ON 67 0* 2 51 NOTE-ON 64 0* 2 53 NOTE-ON 71 0* 19 72 NOTE-ON 62 113 12 84 NOTE-ON 62 0* 12 96 PRG CHANGE 10 64 1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 10 64 1 98 NOTE-ON 65 117 -6 2 122 NOTE-ON 69 0* -6 3 125 NOTE-ON 65 0* -6 19 144 CONTROLLER 10 96 -7 0 144 NOTE-ON 65 0* -6 3 125 NOTE-ON 70 115 -7 0 144 NOTE-ON 70 0* -8 11 </td <td>2</td> <td>→6</td> <td>NOTE-ON</td> <td>71</td> <td>105</td> <td></td> <td></td> <td></td>	2	→ 6	NOTE-ON	71	105			
0 48 CONTROLLER 10 32 1 49 NOTE-ON 67 0* 2 51 NOTE-ON 64 0* 2 53 NOTE-ON 71 0* 19 72 NOTE-ON 62 113 12 84 NOTE-ON 62 0* 12 96 PRG CHANGE 10 64 1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 65 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 7 10 144 NOTE-ON 70 115 10 96 7 12 156 NOTE-ON 70 0* 10 8 8 10 10 10 10 <td>42</td> <td>48</td> <td>NOTE-ON</td> <td>60</td> <td>0*</td> <td></td> <td></td> <td></td>	42	48	NOTE-ON	60	0*			
1		48	CONTROLLER			10	32	
2 53 NOTE-ON 71 0* 19 72 NOTE-ON 62 113 3 12 84 NOTE-ON 62 0* 112 96 PRG CHANGE 0 96 CONTROLLER 10 64 1 97 NOTE-ON 72 114 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 65 117 22 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 0 10 96 7 144 NOTE-ON 70 115 12 156 NOTE-ON 70 0* 15 156 NOTE-ON 70 0* 10 96 7	1	49	NOTE-ON	67			1 +	 - 2
2 53 NOTE-ON 71 0* 19 72 NOTE-ON 62 113 12 84 NOTE-ON 62 0* 12 96 PRG CHANGE 33 0 96 CONTROLLER 10 64 1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 65 117 22 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 12 156 NOTE-ON 70 0* 8 11 167 NOTE-ON 67 117	2	51	NOTE-ON	64	0*			
19 72 NOTE-ON 62 0* 4 12 96 PRG CHANGE 33 0 96 CONTROLLER 10 64 1 97 NOTE-ON 72 114 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 65 117 22 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 19 144 NOTE-ON 70 115 12 156 NOTE-ON 70 0* 11 167 NOTE-ON 67 117		53	NOTE-ON	71	0*			
12 96 PRG CHANGE 33 0 96 CONTROLLER 10 64 1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 69 0* 6 3 125 NOTE-ON 65 0* 6 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 8 12 156 NOTE-ON 70 0* 8 11 167 NOTE-ON 67 117 9	19	72	NOTE-ON	62	113		+	 3
0 96 CONTROLLER 10 64 1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 8 12 156 NOTE-ON 70 0* 8 11 167 NOTE-ON 67 117 9	12	84	NOTE-QN	62	0*		+	4
1 97 NOTE-ON 72 114 5 0 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 69 0* 6 3 125 NOTE-ON 65 0* 10 96 7 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 8 12 156 NOTE-ON 70 0* 8 11 167 NOTE-ON 67 117 9	12	96	PRG CHANGE				1 .	
1 97 NOTE-ON 69 102 1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 8 12 156 NOTE-ON 70 0* 8 11 167 NOTE-ON 67 117 9	0	96	CONTROLLER	ļ		10	64	
1 98 NOTE-ON 65 117 22 120 NOTE-ON 72 0* 2 122 NOTE-ON 69 0* 3 125 NOTE-ON 65 0* 19 144 CONTROLLER 10 96 7 0 144 NOTE-ON 70 115 12 156 NOTE-ON 70 0* 11 167 NOTE-ON 67 117 9	1	97	NOTE-ON	72	1		+	 5
120	0	97	NOTE-ON	69	102			
2	1	98	NOTE-ON	65				
12	22	120	NOTE-ON	72	_			
19	2	122	NOTE-ON	1	1		1 †	 6
19	3	125			0*			_
12	19	144	CONTROLLER	3		10	96	 7
12 130 NOTE-ON 79 9 11 167 NOTE-ON 67 117 9	0	144	NOTE-ON	70	:			
10/	12	156	NOTE-ON	70		·	+	i
13 180 NOTE-ON 67 0* 10	11	167	NOTE-ON	67			+	1
*NOTE-OFF	13	180	NOTE-ON	67	<u></u>		<u></u>	10

*NOTE-OFF

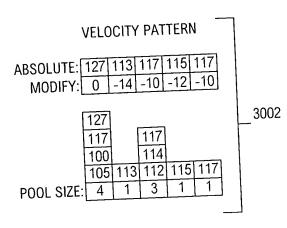
FIG. 28



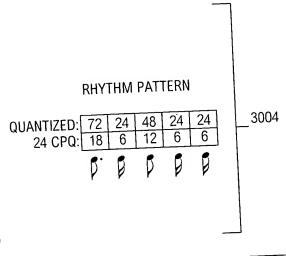
EVENT DELTA_ACCUM GROUPS PITCH NOTE-ON NOTE-OFF DURATIO 60 0 48 48 40 49 48					_		
GROUPS PITCH NOTE-ON NOTE-OFF DURATIO 60		T.O.	ACCUM	DELTA_	[FVFNT	٢
60 0 48 48	N	DURATION	NOTE-OFF	NOTE-ON	PITCH		١
1 1 4 1 40 1 48	- 1	_	48	0		0110010	H
1 17 1 10/ 1 1 1 10 1	1	48	49	1	67	12	١
1,2 67 1 49 10 47	- 1	47	51	ا ا		1,2	1
71 6 53 47		47	l .	\	l .		١
12		12					1
3,4 02 12 120 23		23				3,4	
/2 91 123				97	72	}	
1 56 1 69 1 97 1 122 1 22				97	69	56	
65 98 125 27		1	125	98		3,0	
156 12		12_	156			70	
7,0 10 180 13		13	180				
9,10 67 167 160			1 100	107	6/	9,10	

DURATION PATTERN	
QUANTIZED: 48 12 24 12 12 24 CPQ: 12 3 6 3 3	_3000
PPPP	
_	

EVENT		
GROUPS	PITCH	VELOCITY
- Cite	60	117
1	67	127
	64	100
	71	105
3	62	113
	72	114
5	69	112
	65	117
7	70	115
9	67	117



EVENT GROUPS	PITCH 60	DELTA_ ACCUM NOTE-ON	DISTANCE FROM 1ST NOTE-ON IN NEXT EVENT GROUP 72
1	67	1	72 71
	64 71	6	71
3	62	72	47
5	72 69 65	97 97 98	47 47 46 23
7	70	144	
9	67	167	25



EVENT GROUPS NOTE-ONS IN GROUP CLUSTER PATTERN 4 1 3 1 1 3 1 BIT 4 X X X 5 3 BIT 3 X X X 7 1 BIT 2 X X X X 9 1 BIT 1 X X X X X	00
--	----

EVENT GROUPS PITCH 60		
1 67 64	STRUM PATTERN	3102
71 72 5 69 65	UP DOWN	

_	EVENT	ſ	DISTANCE	TO NEXT
١,	EACINI	PITCH	FIRST	ALL
1	GROUPS	60	2	7
-	Ì		_	-3
1	1	67		7
- }		64	1	1 '0 1
- 1		71		-9
}	3	62	10	10
}		72	-2	-3
- 1	_	l	1	-4
1	5	69	1	5
		65		-3
	7	70	-3	-3
	9	67	-7	-/
	1			

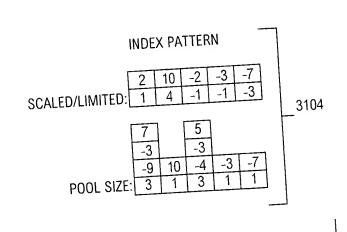


FIG. 31

EVENT		
GROUPS	CONTROLLER	VALUE
1	10	0
1 2	10	32
5	10	64
$\frac{3}{7}$	10	96

PAN PATTERN	
0 32 64 96	_3200

G	EVENT ROUPS	PROGRAM CHANGE	NOTE-ONS IN GROUP
	3	21	1 3
-	5 7 9	33	1

VOICE CHANGE PATTERN	3202
21 33	

EVENT	
GROUPS	PITCH
	60
1	67
	64
	71
3	62
	72
5	69
5	69 65
5	69

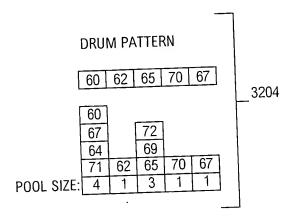


FIG. 32

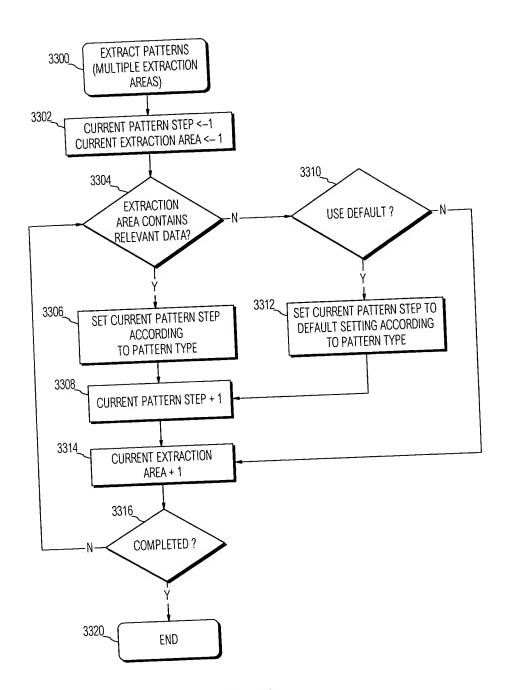


FIG. 33

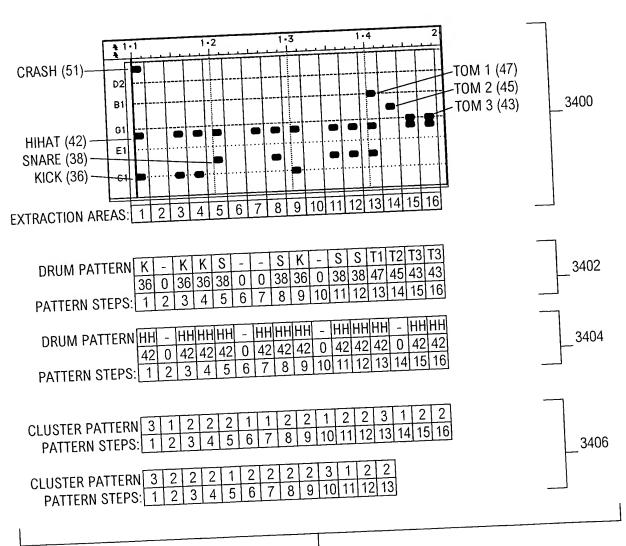


FIG. 34

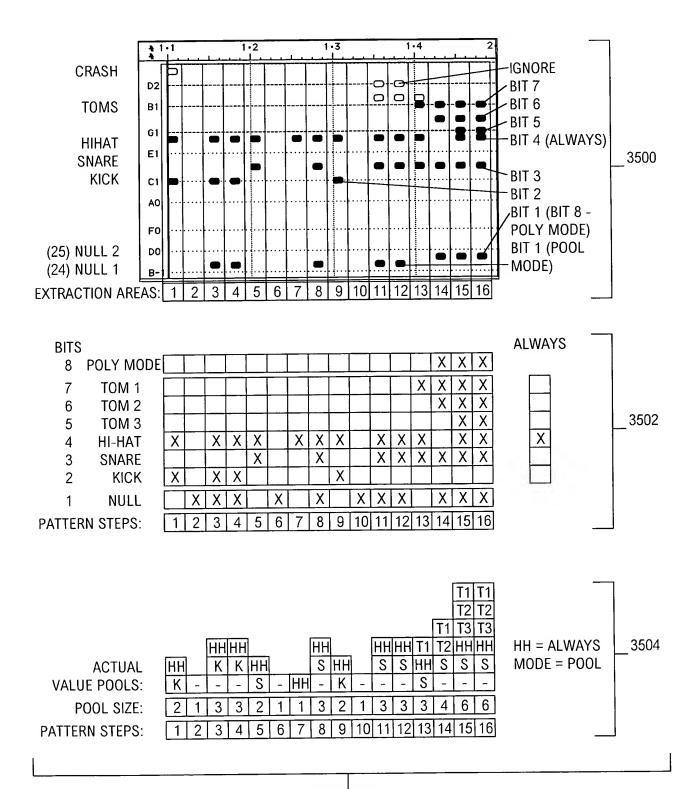


FIG. 35

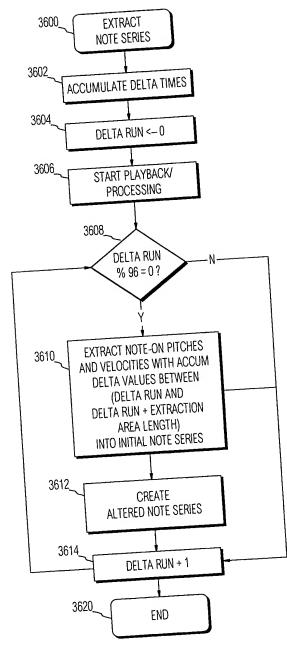


FIG. 36

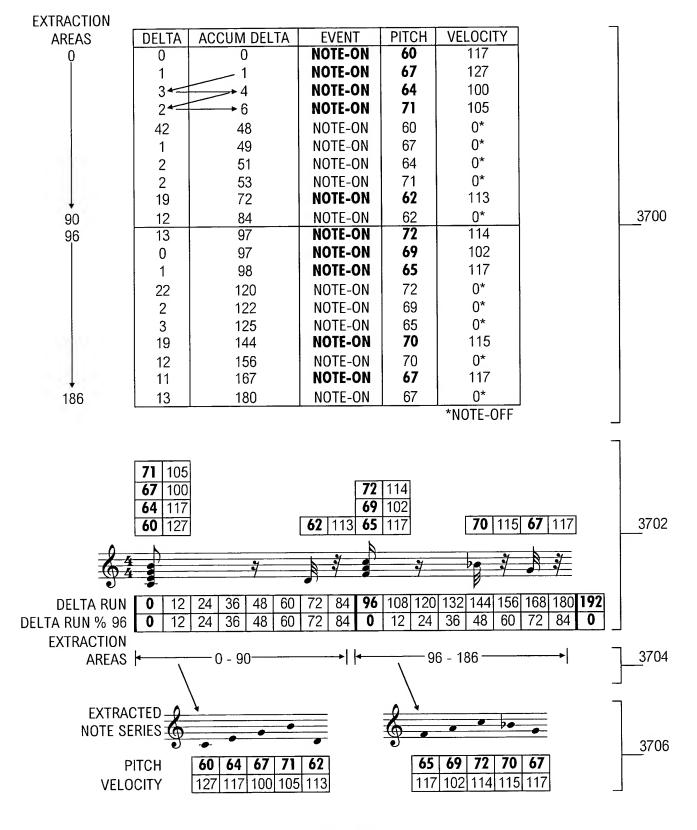
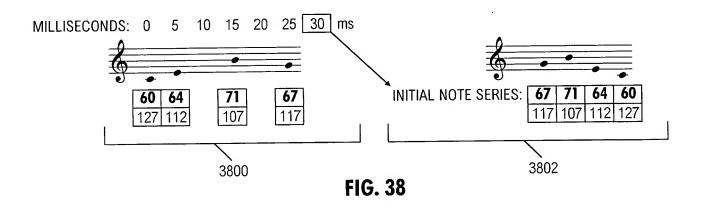
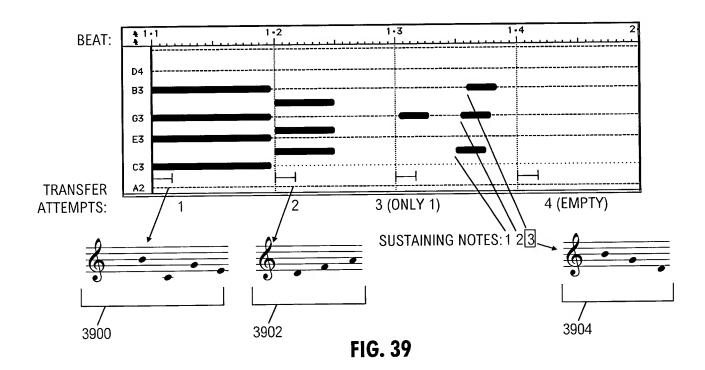


FIG. 37





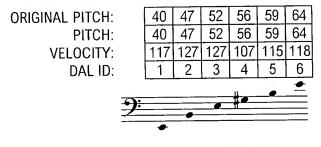


FIG. 40

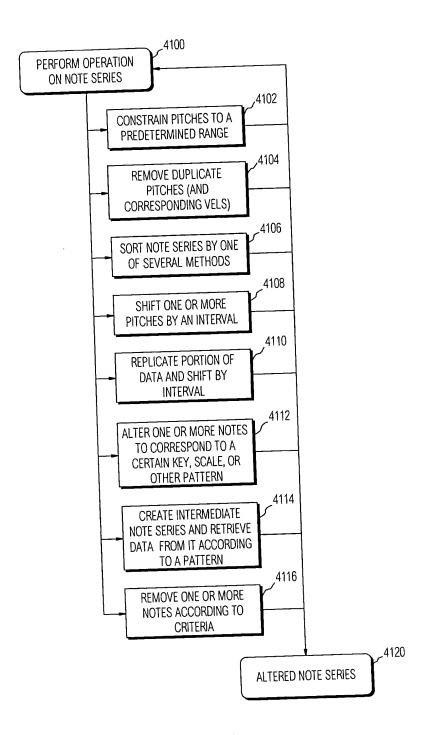
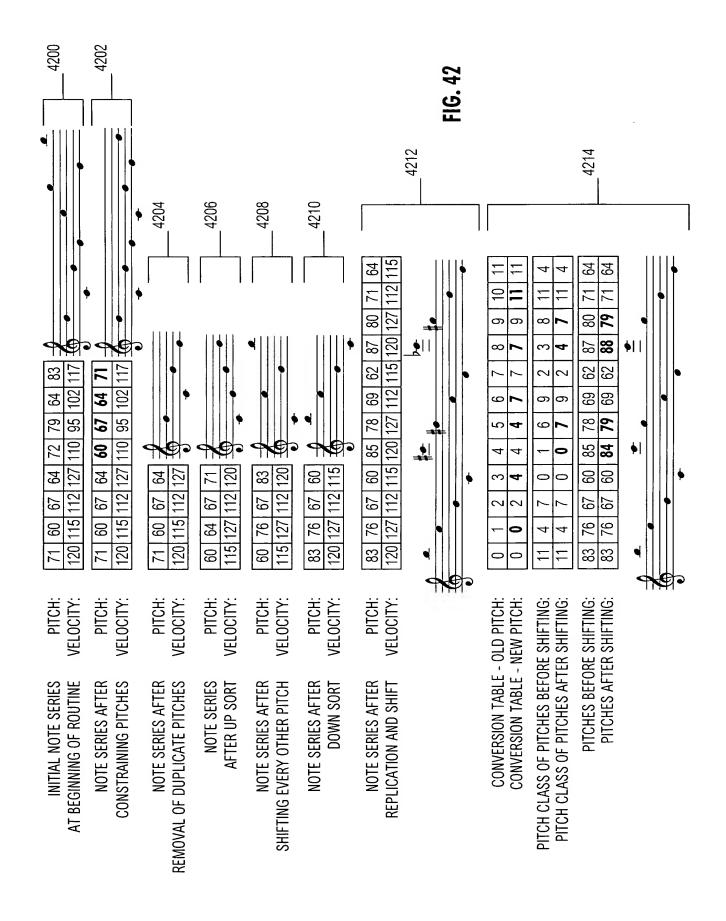
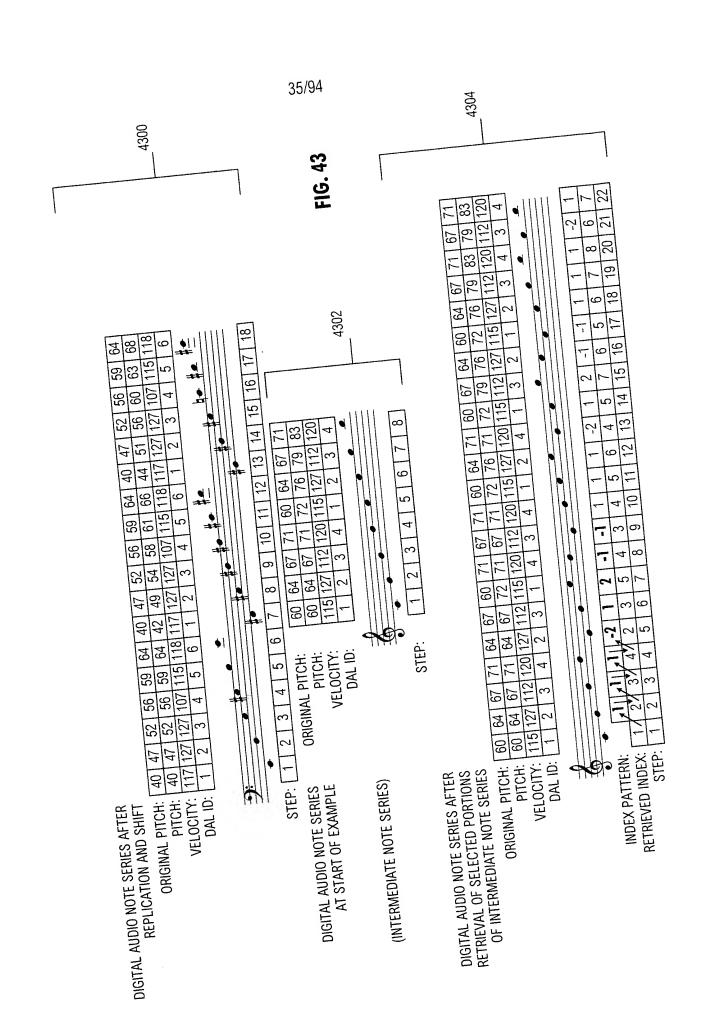


FIG. 41





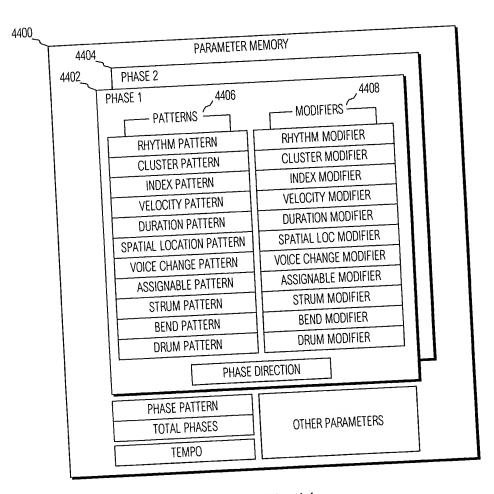


FIG. 44

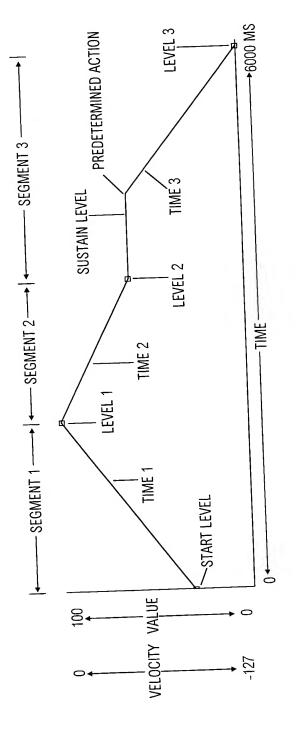


FIG. 45

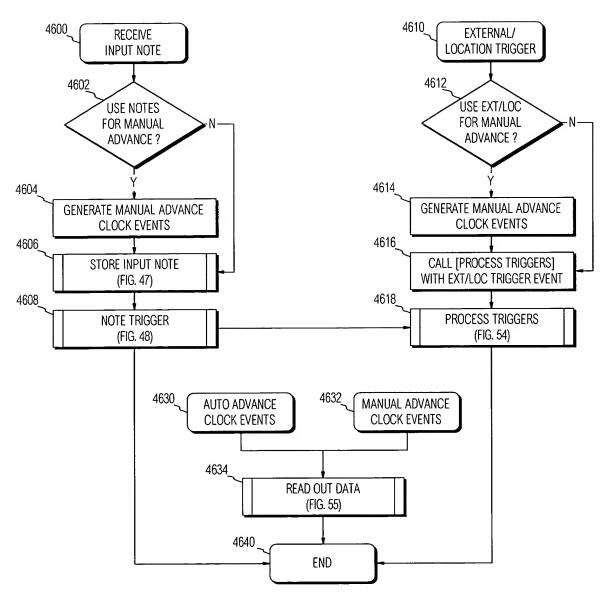


FIG. 46

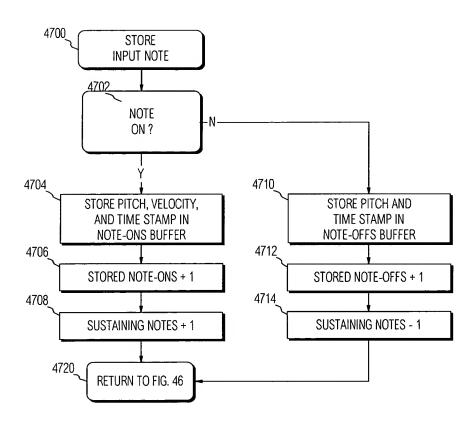
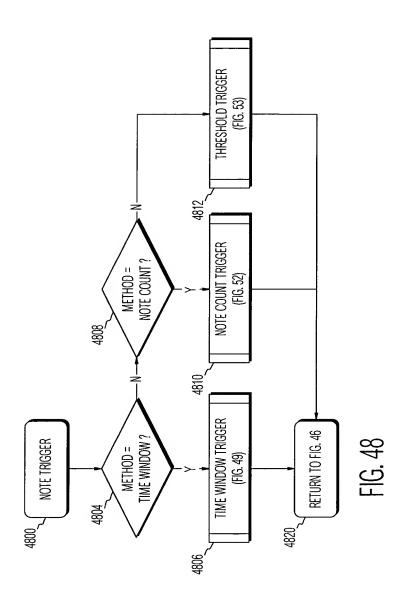
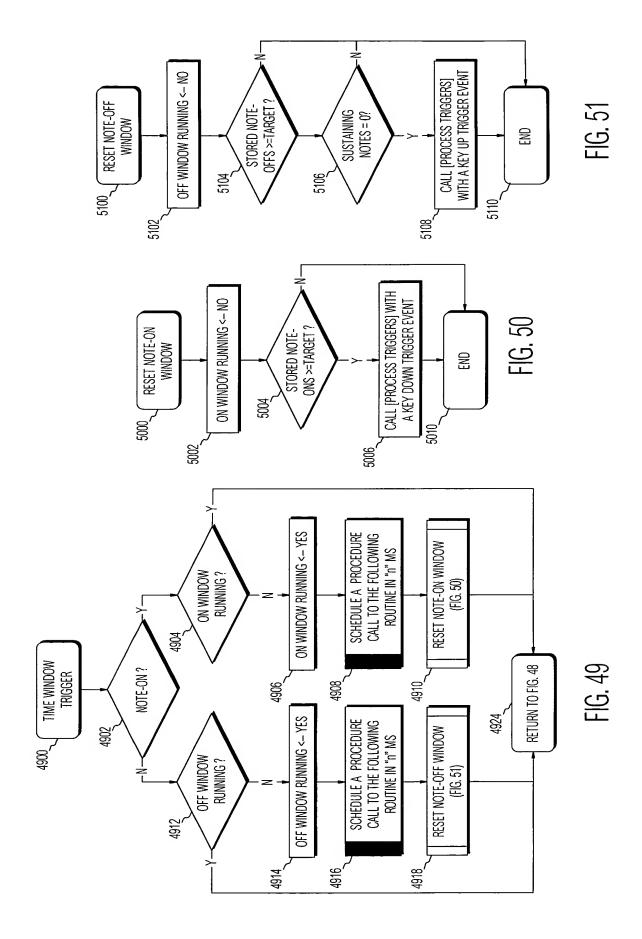
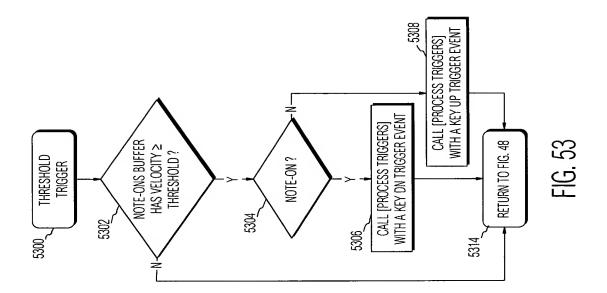
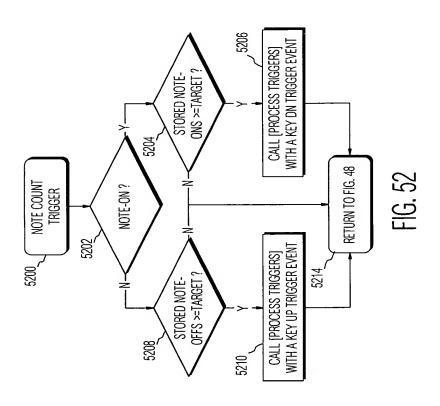


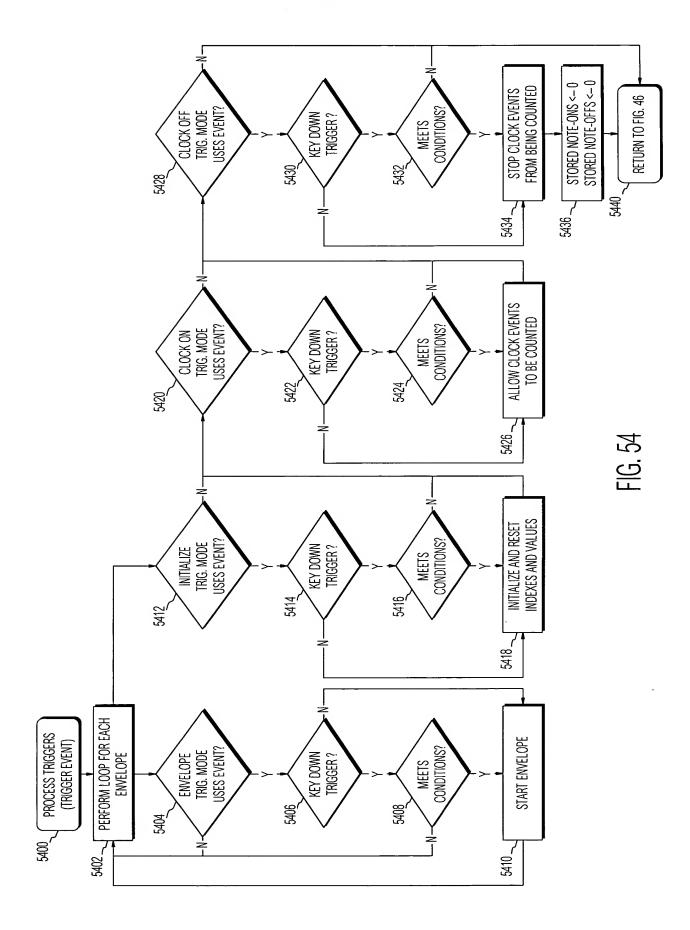
FIG. 47

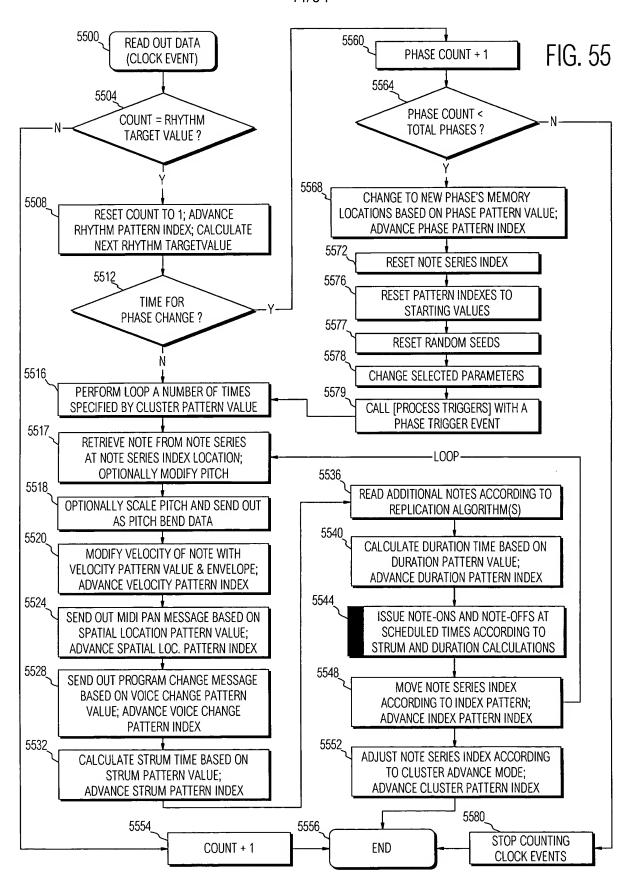


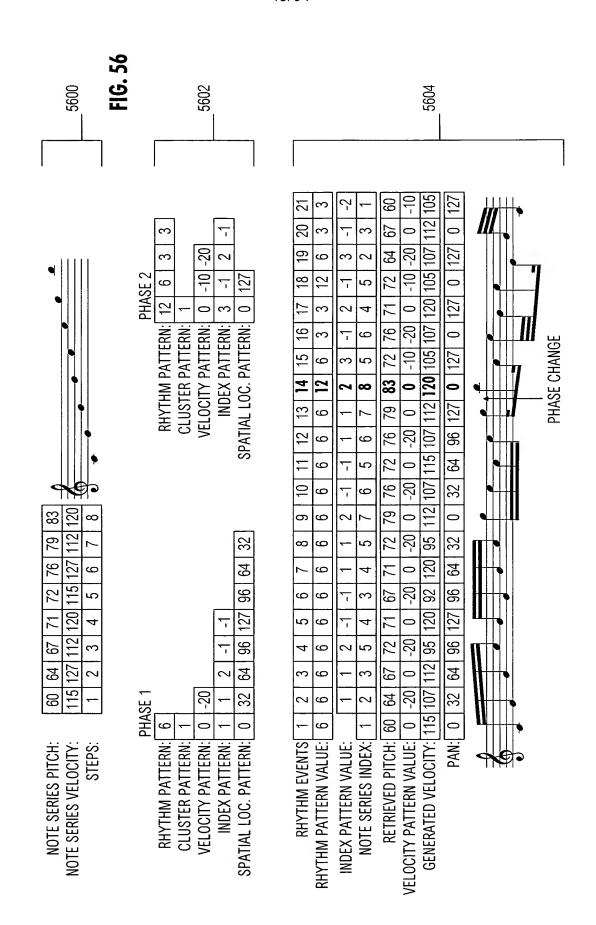


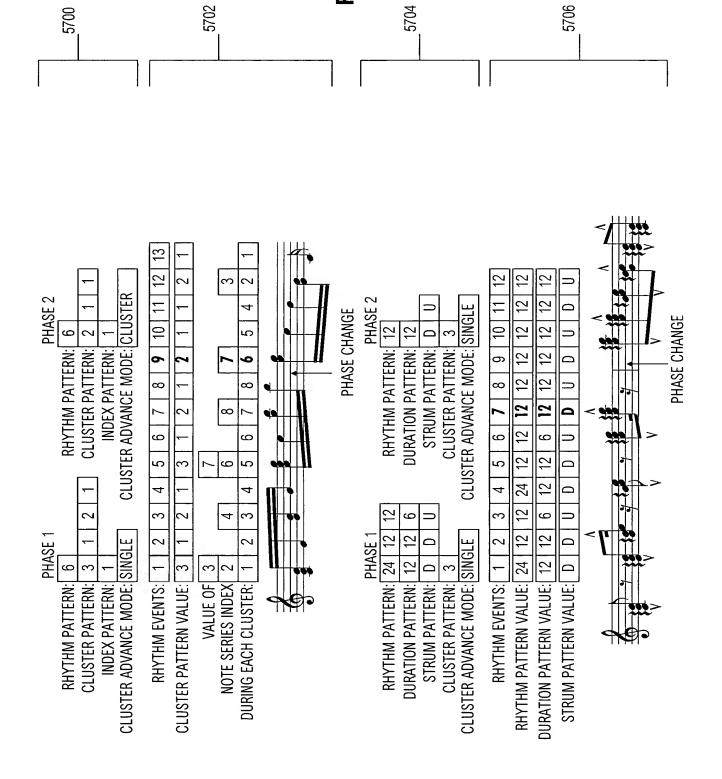


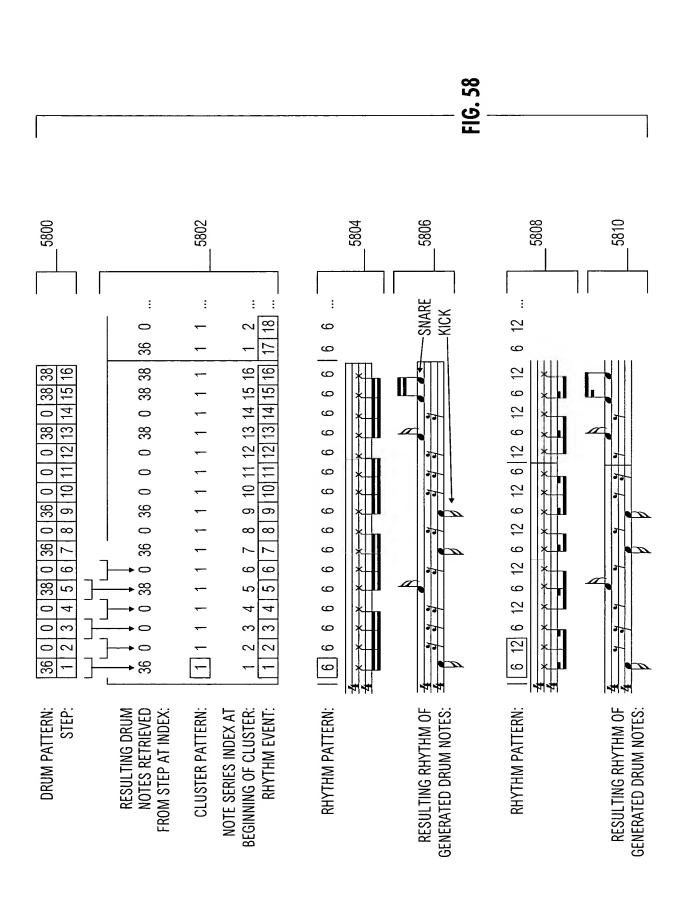


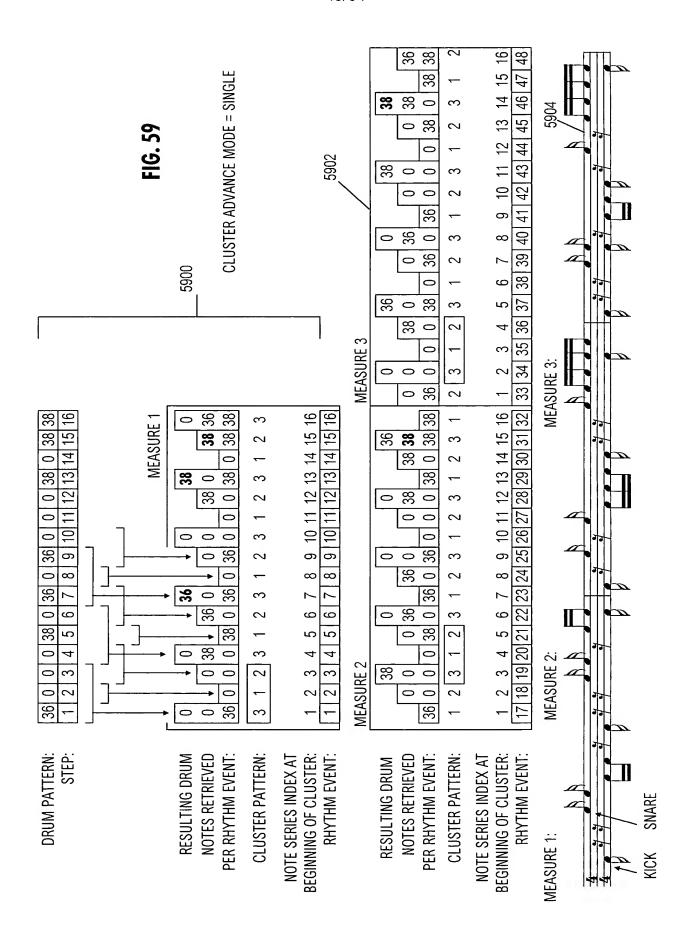


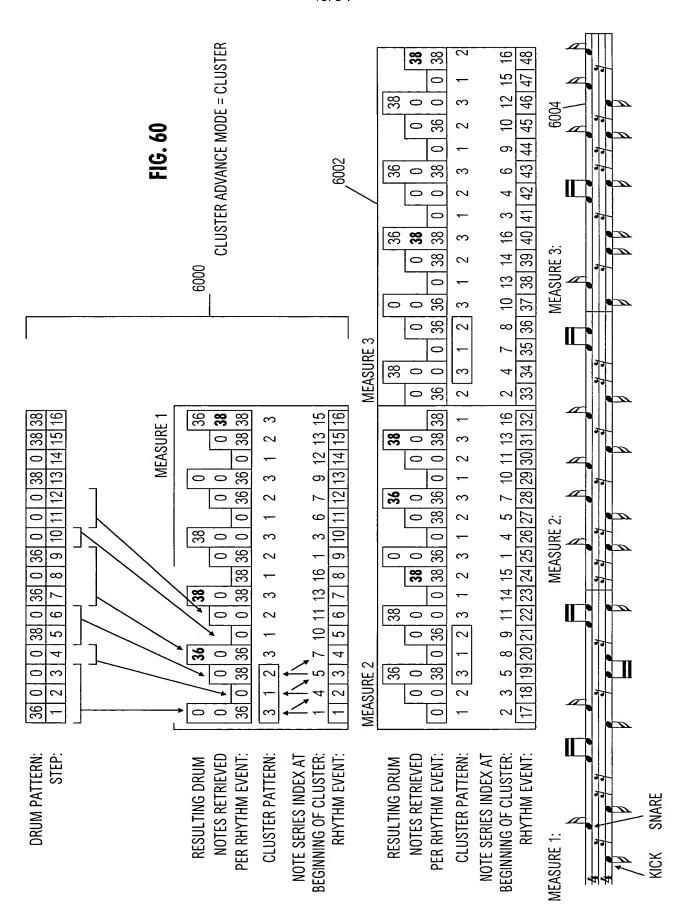


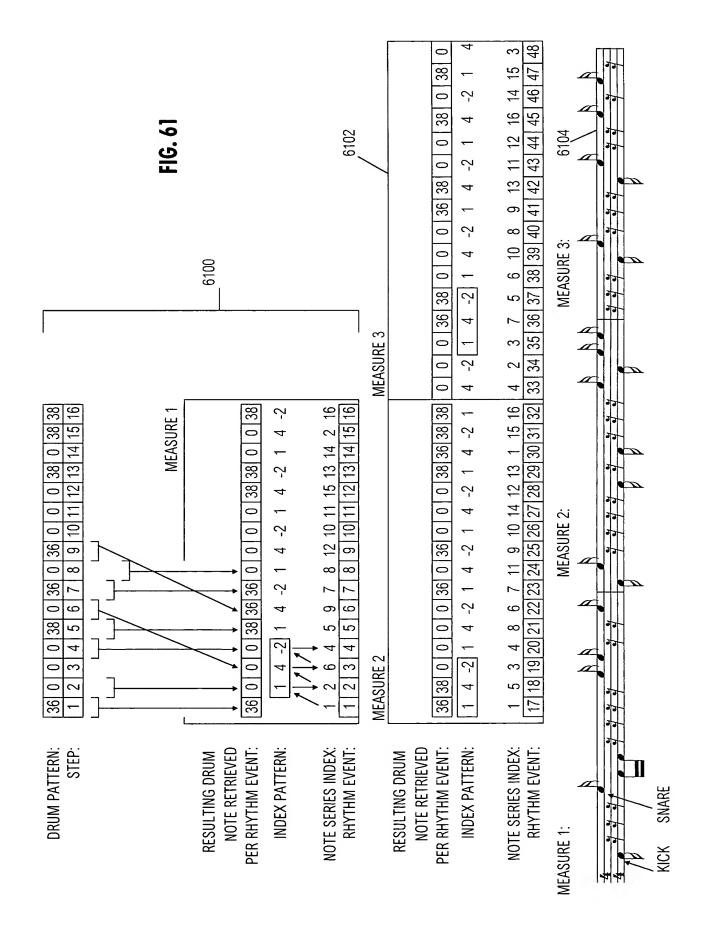












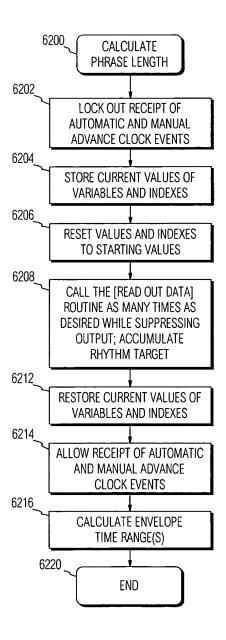
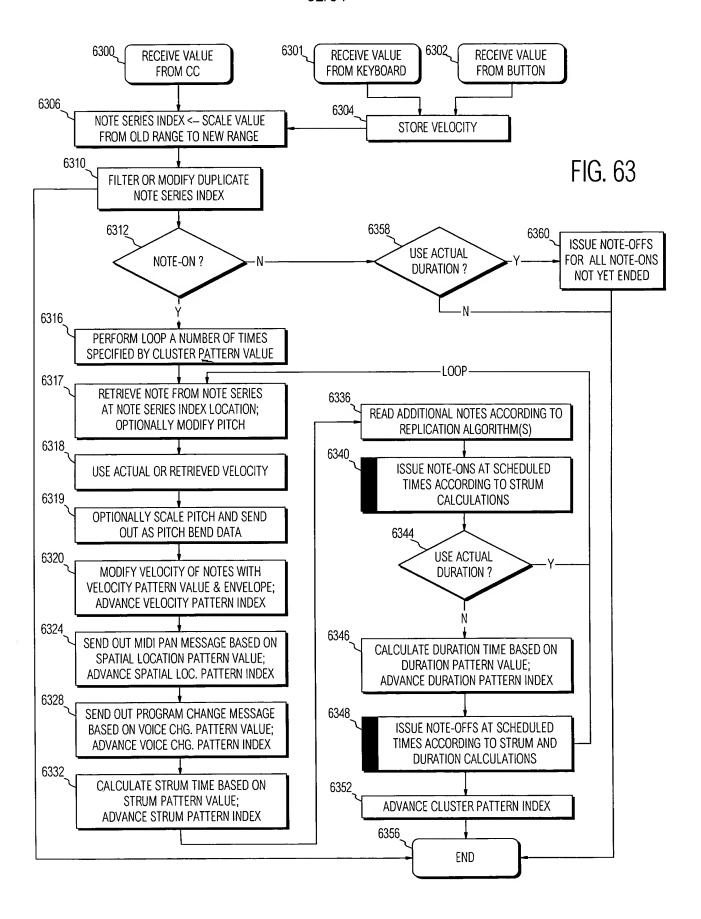
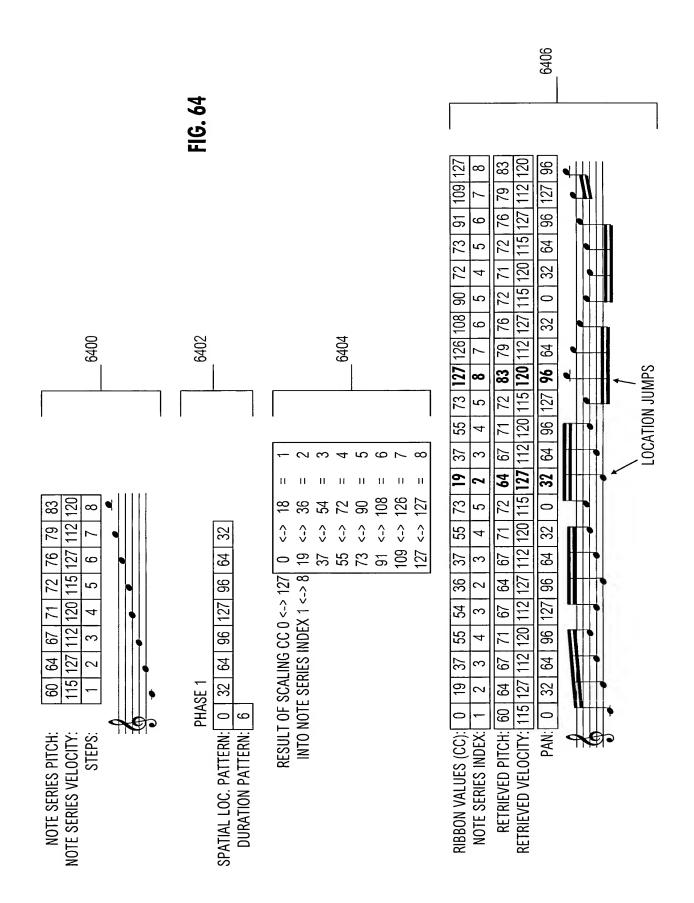
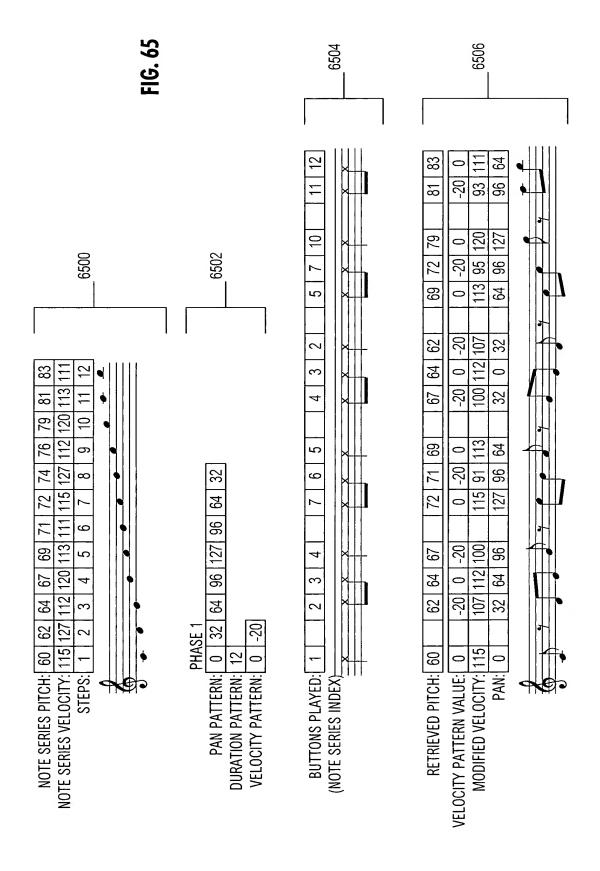
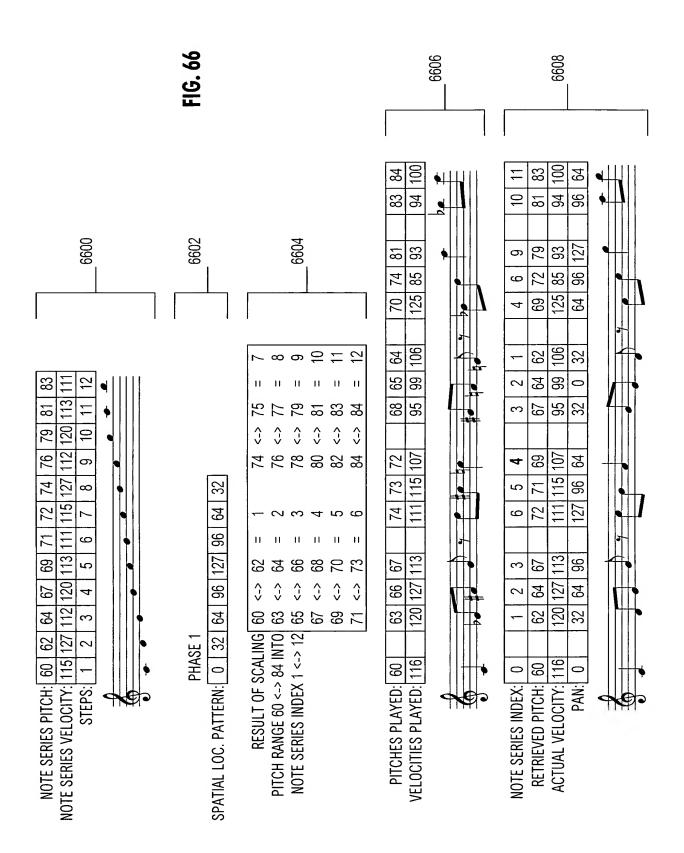


FIG. 62

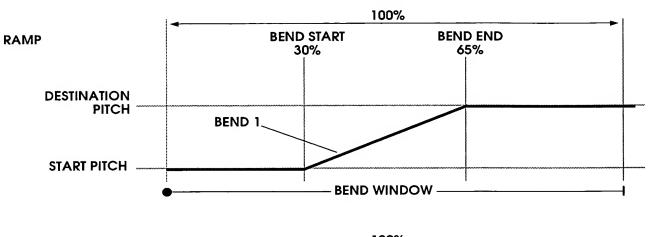


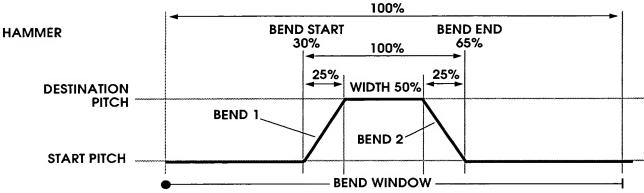






DIFFERENT BEND SHAPES





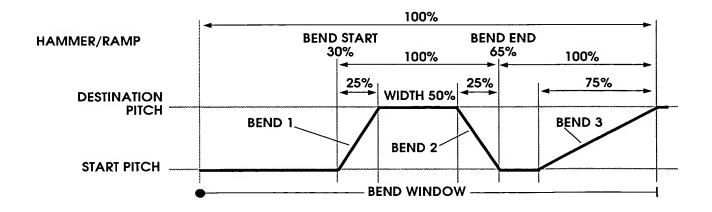
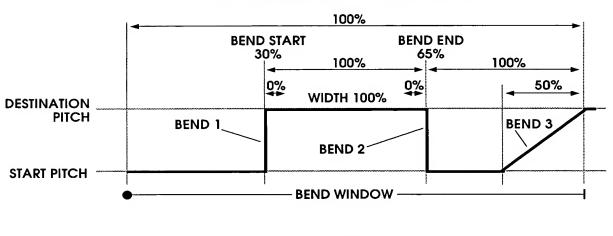
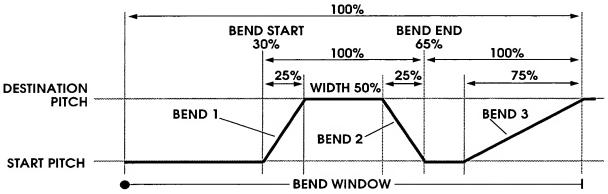


FIG. 67

HAMMER/RAMP WITH DIFFERENT WIDTHS





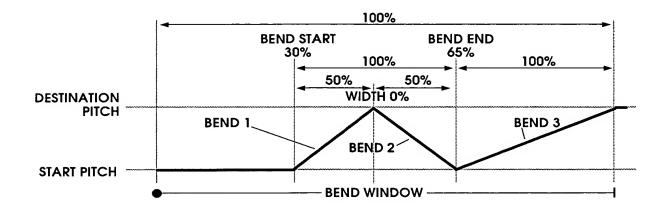
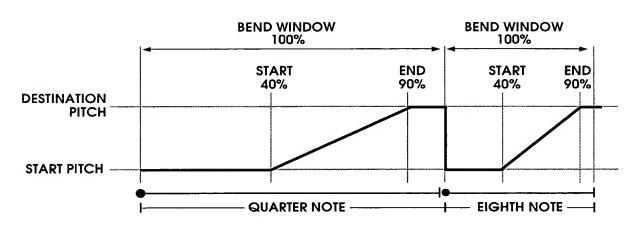


FIG. 68

RAMP BEND USING NOTE DURATION



RAMP BEND USING ABSOLUTE TIME

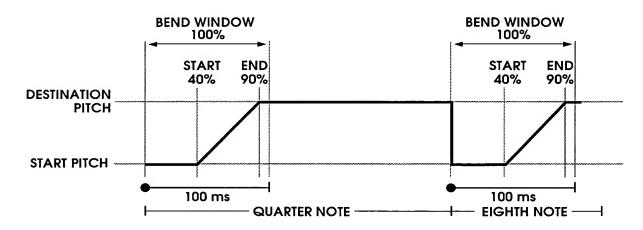
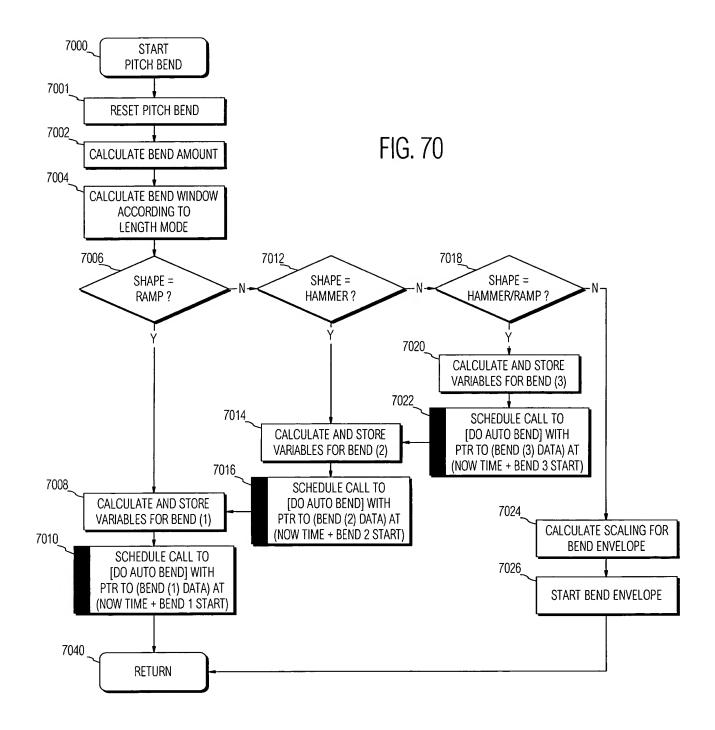
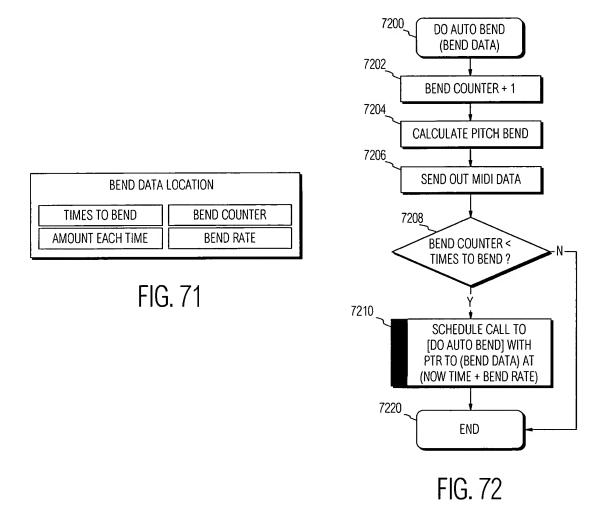


FIG. 69





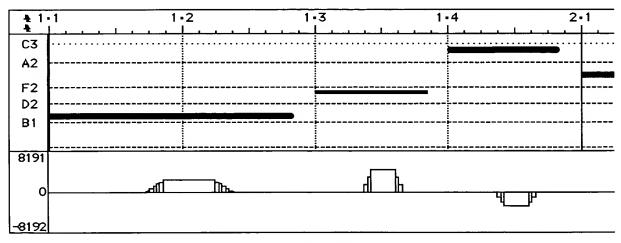
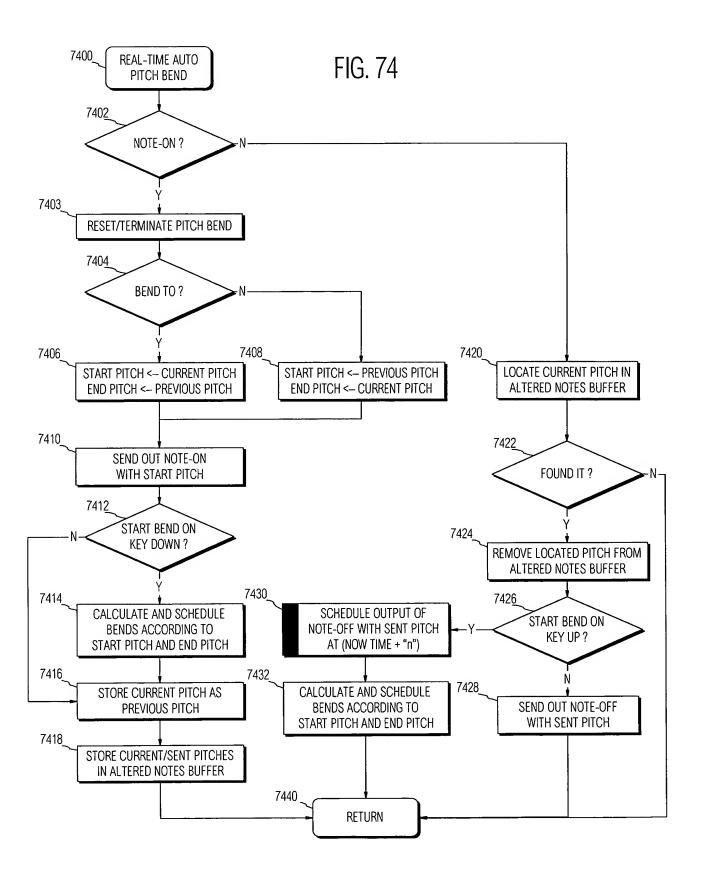


FIG. 73



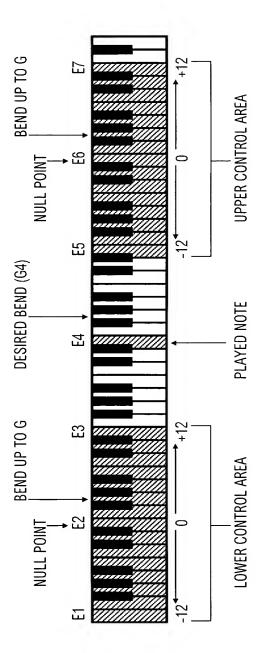
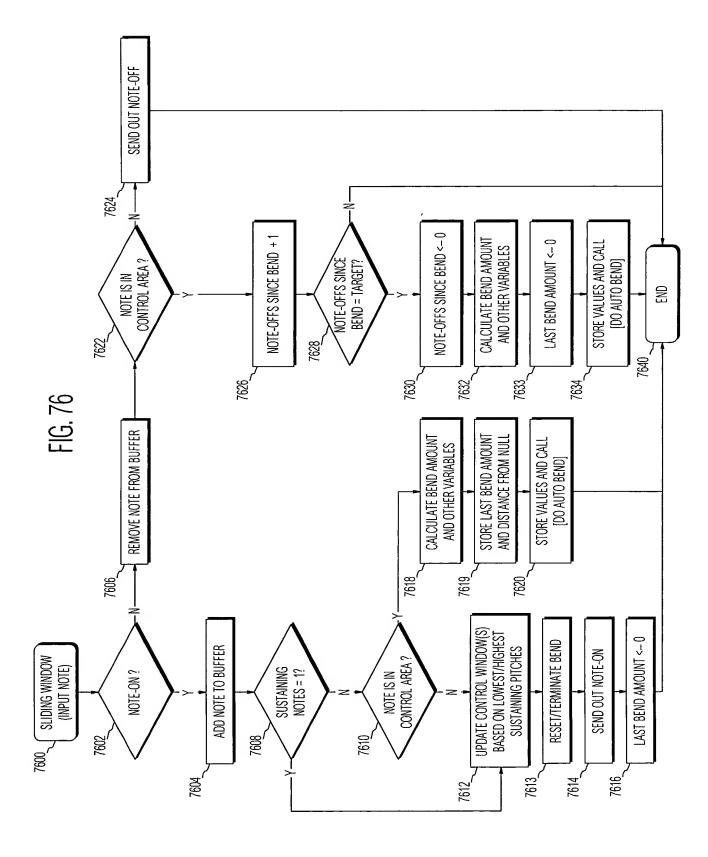
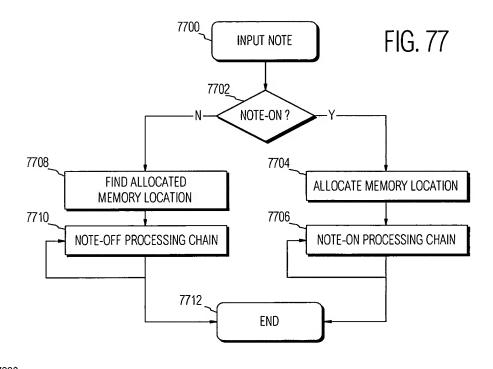


FIG. 75





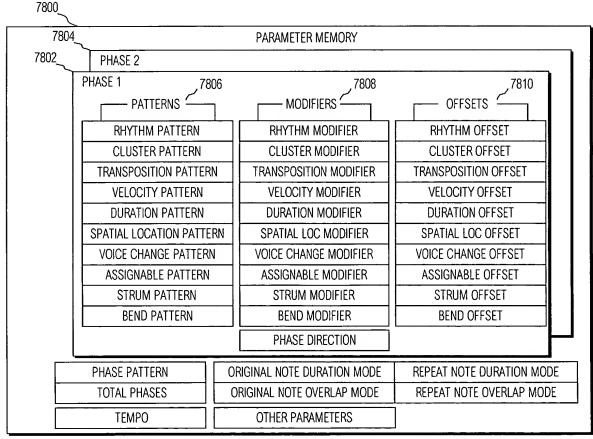


FIG. 78

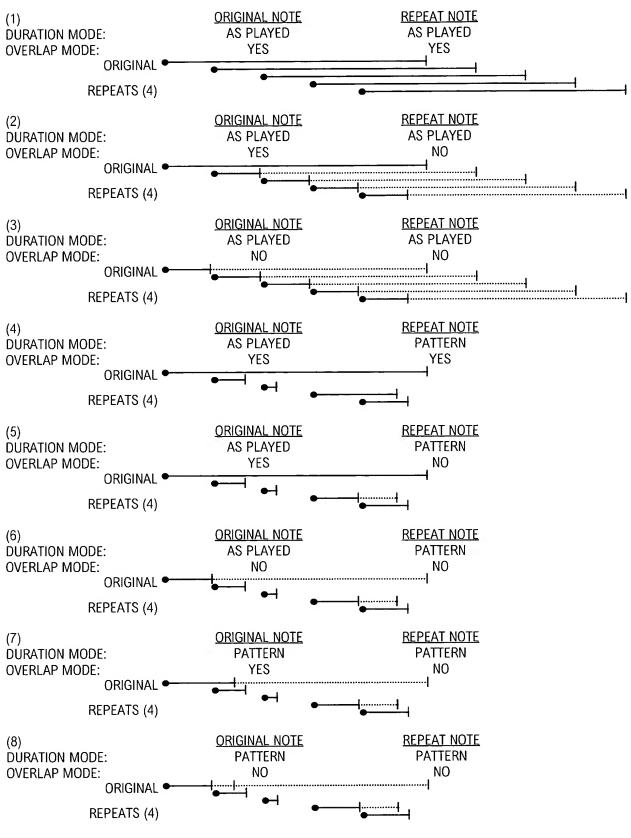


FIG. 79

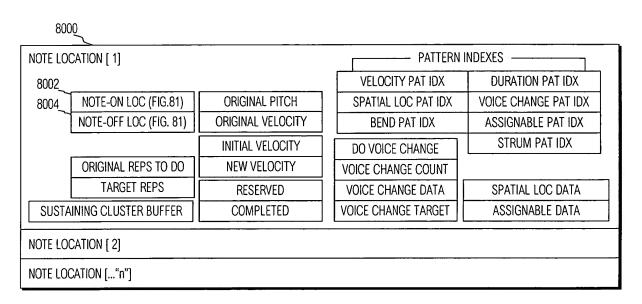


FIG. 80

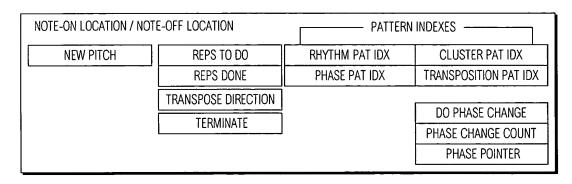


FIG. 81

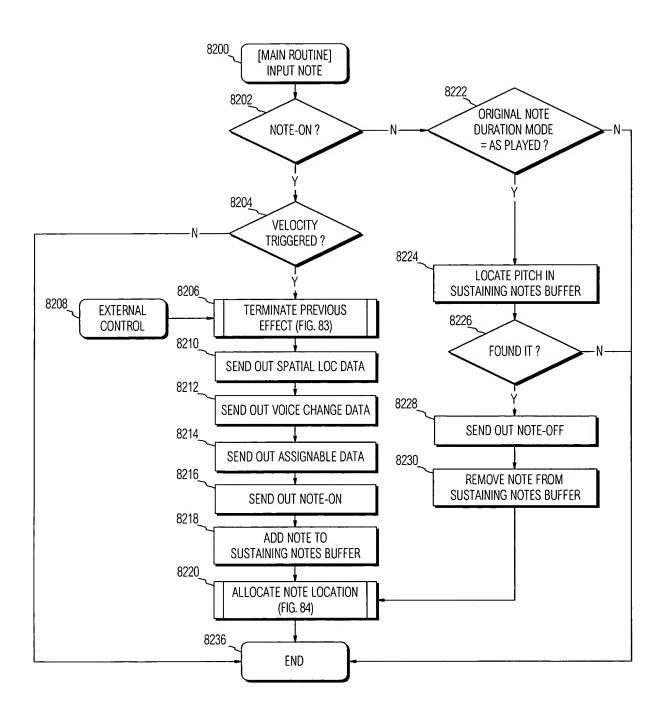


FIG. 82

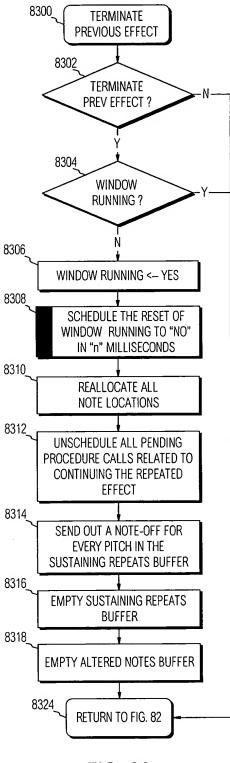


FIG. 83

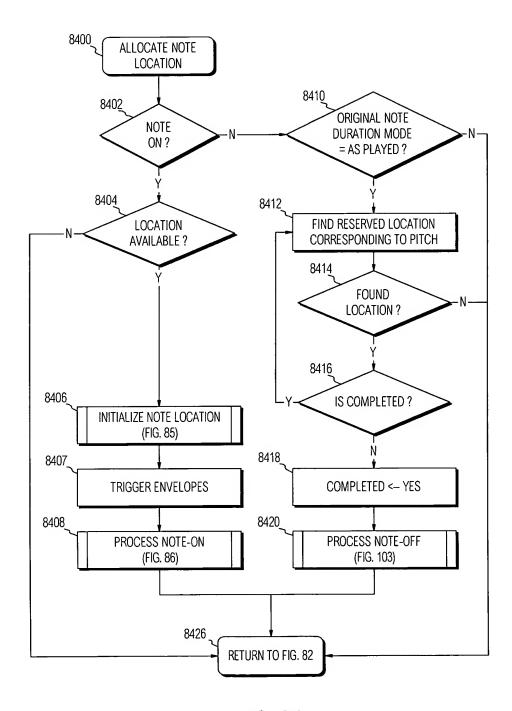
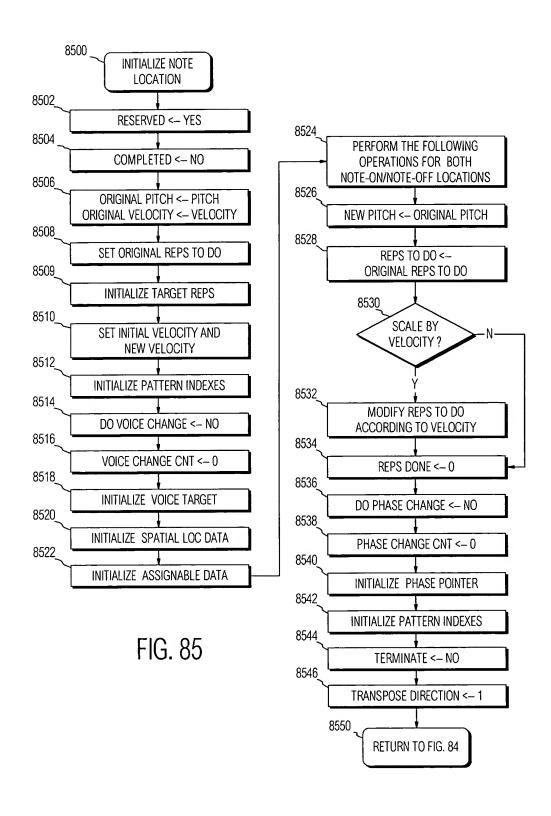
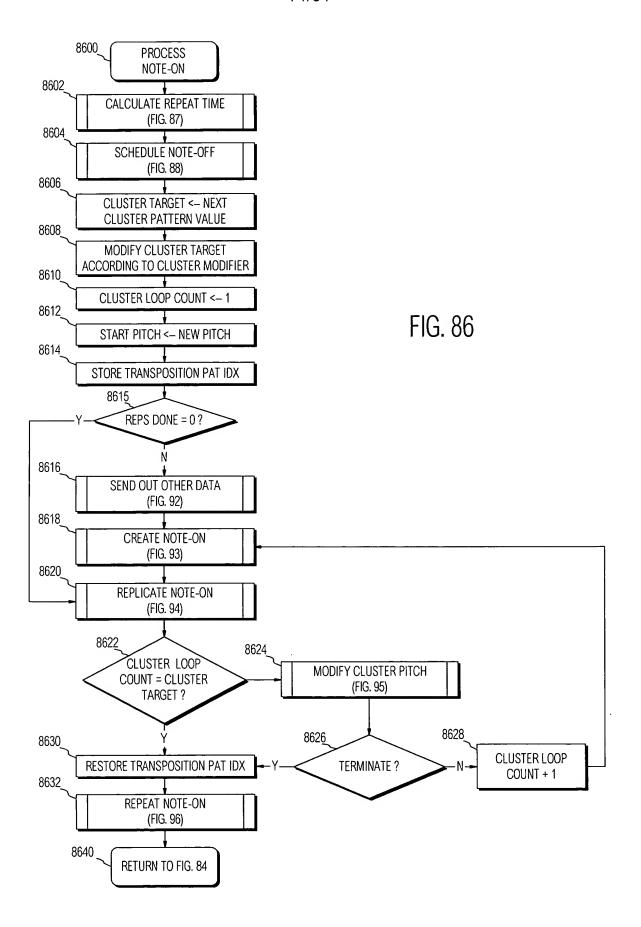


FIG. 84





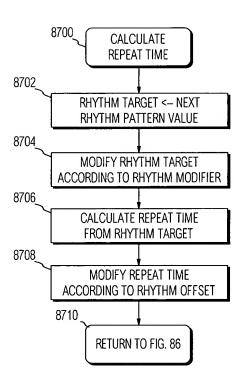
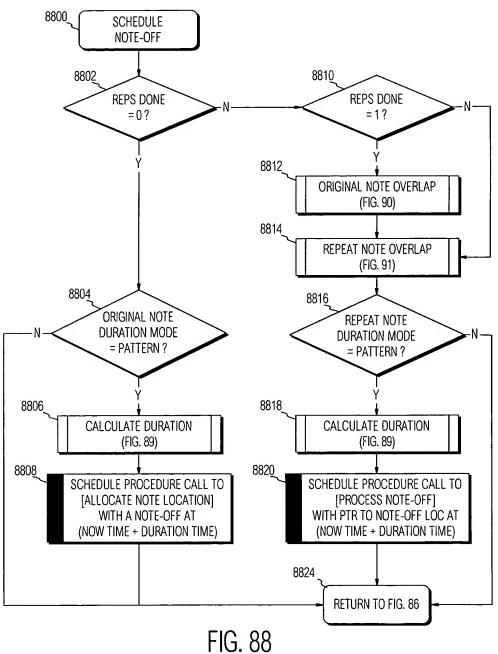


FIG. 87



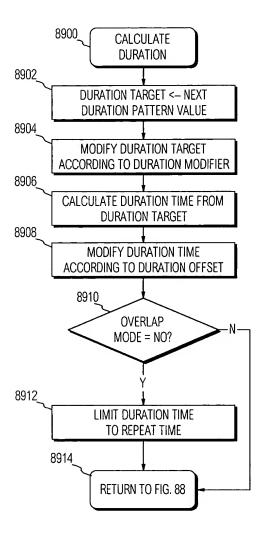
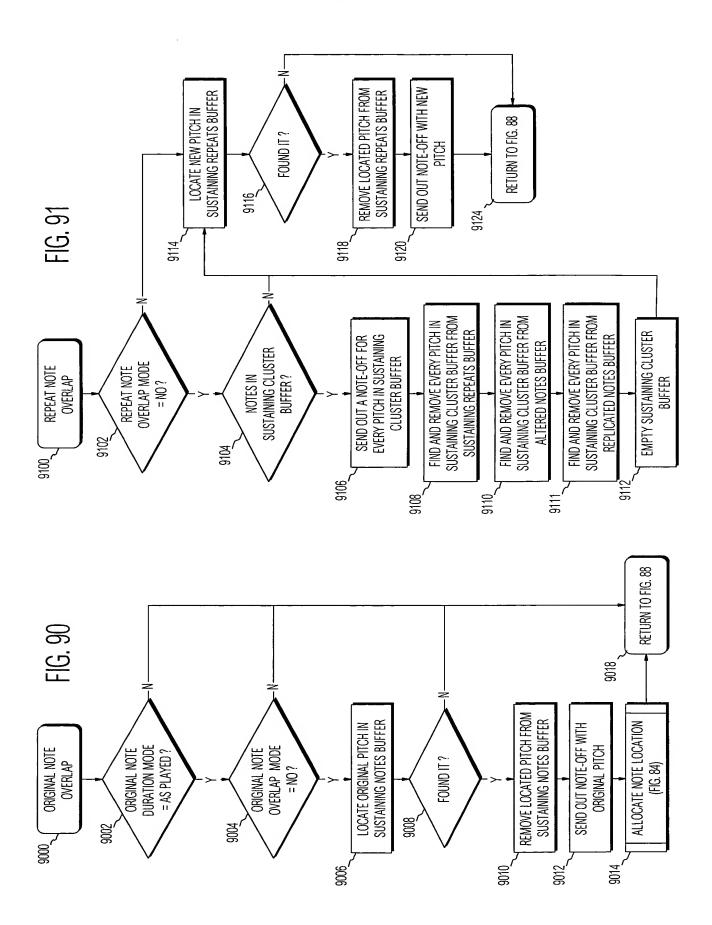


FIG. 89



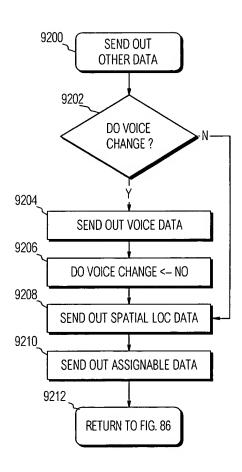
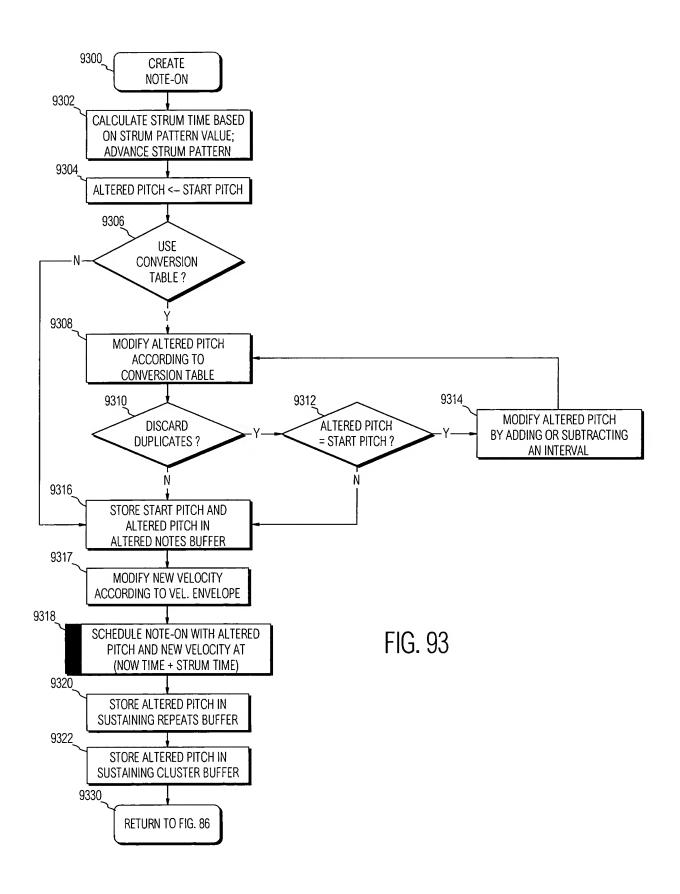


FIG. 92



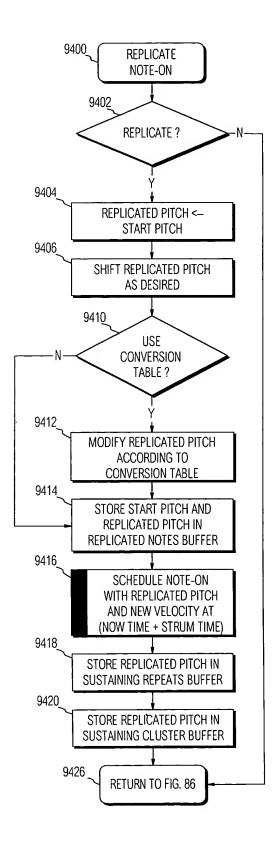
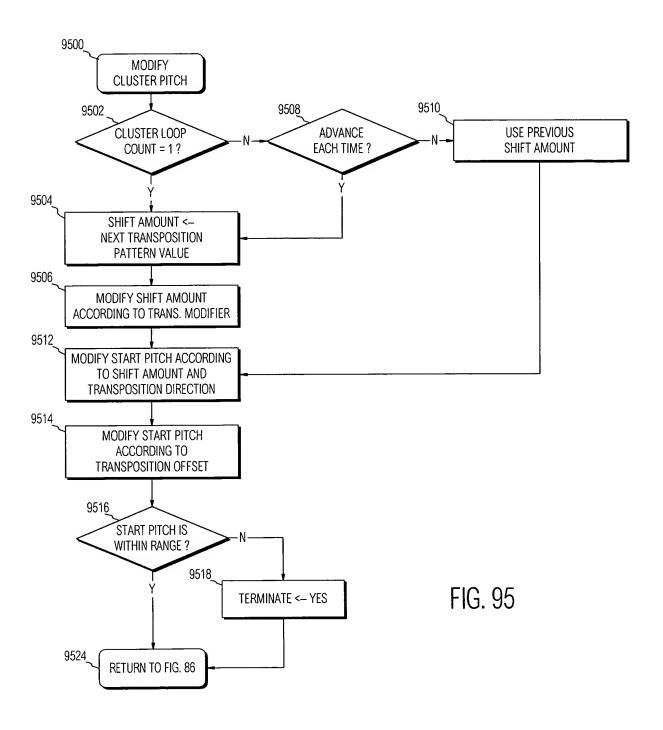
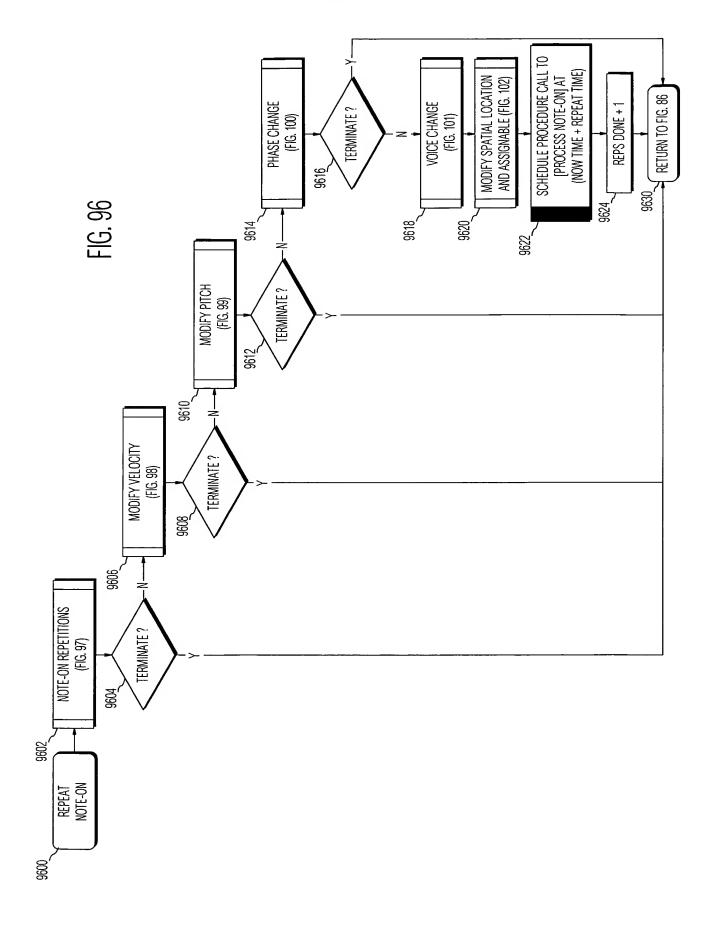
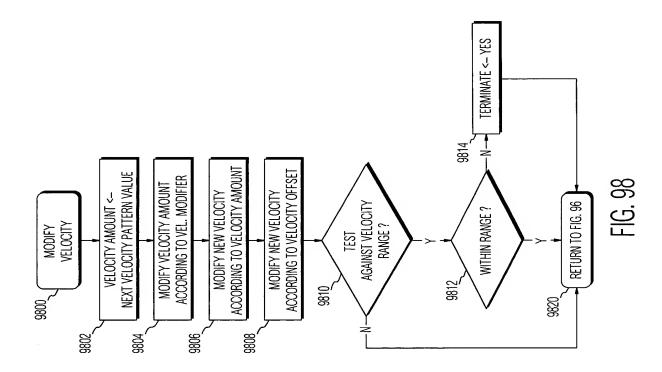
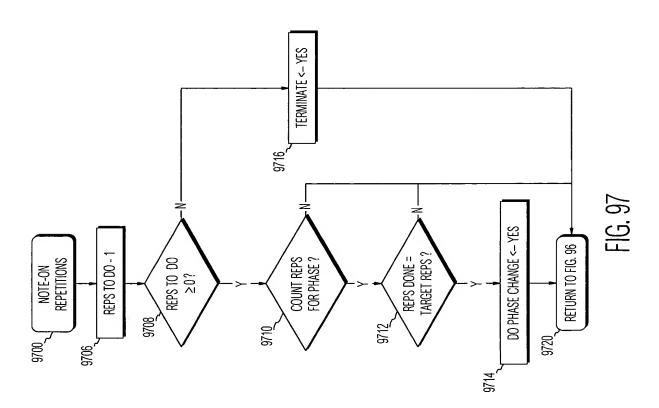


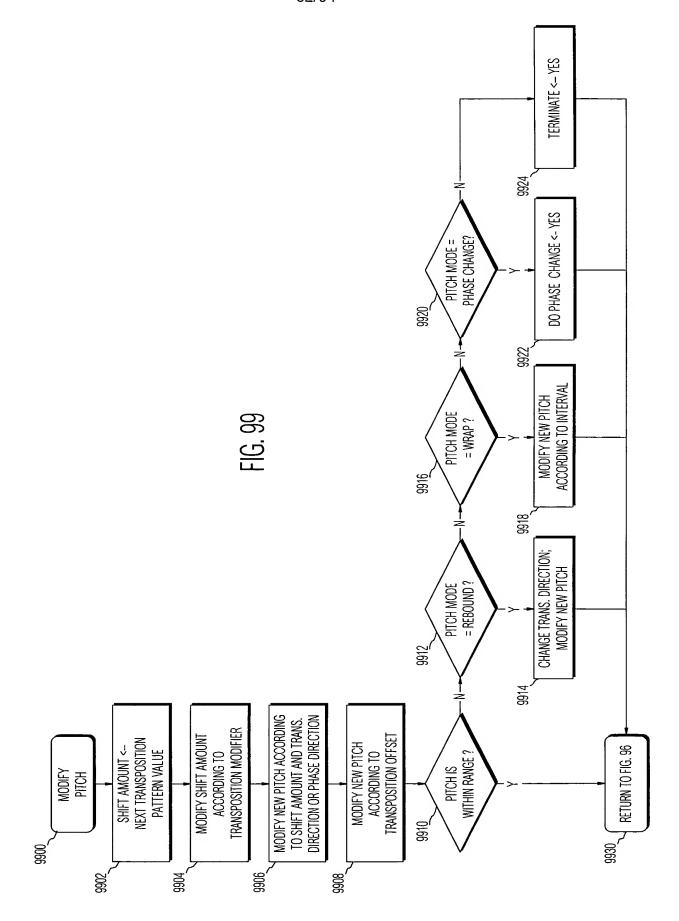
FIG. 94











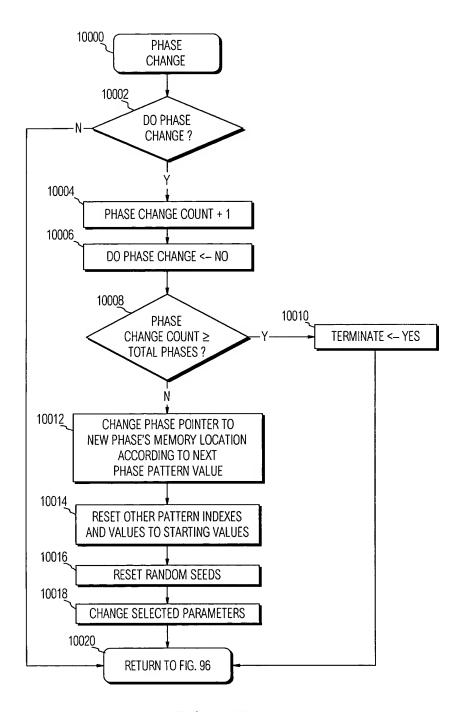
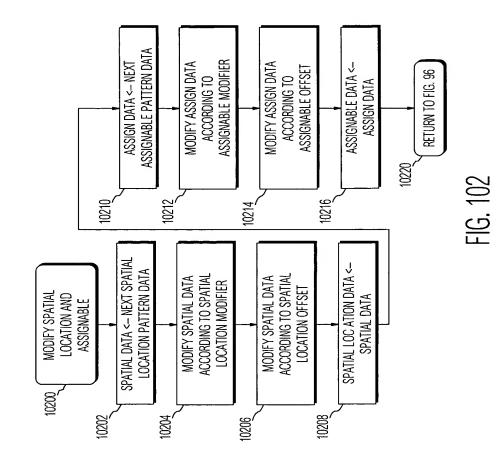
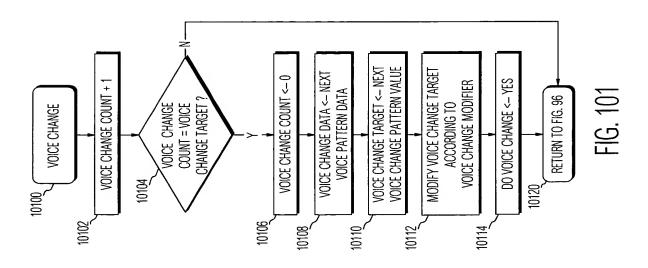
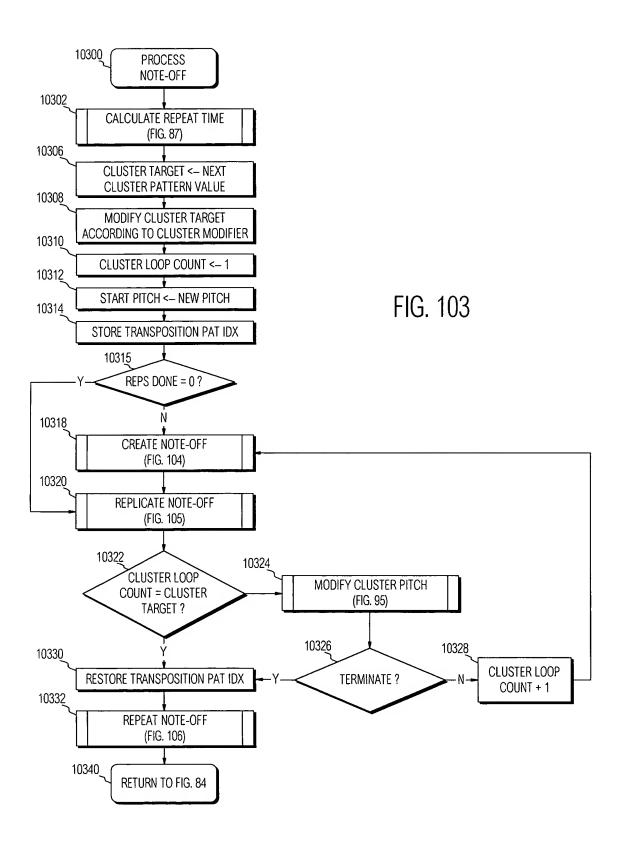
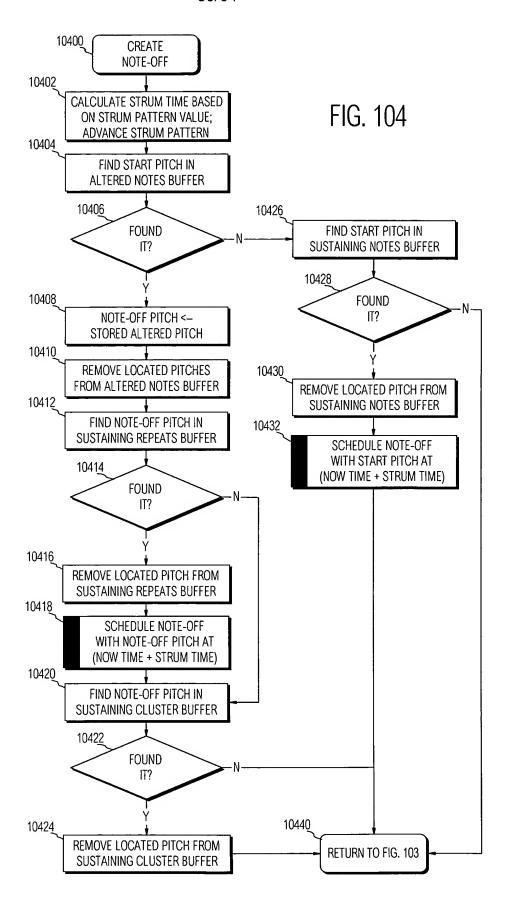


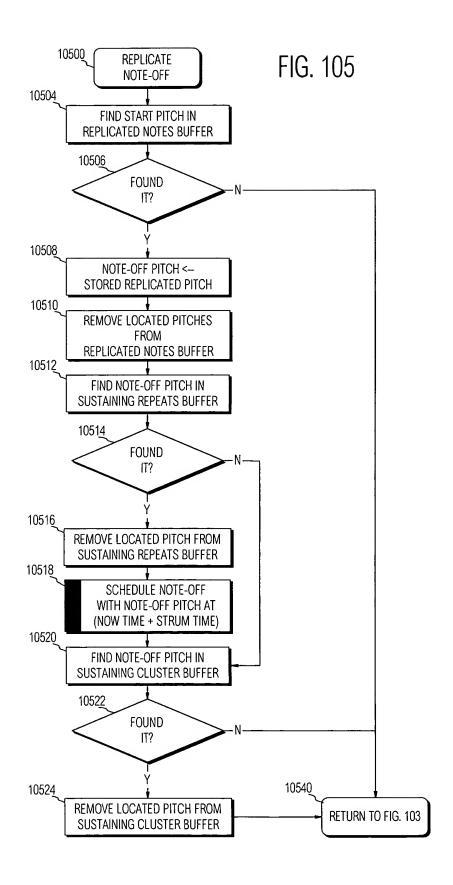
FIG. 100

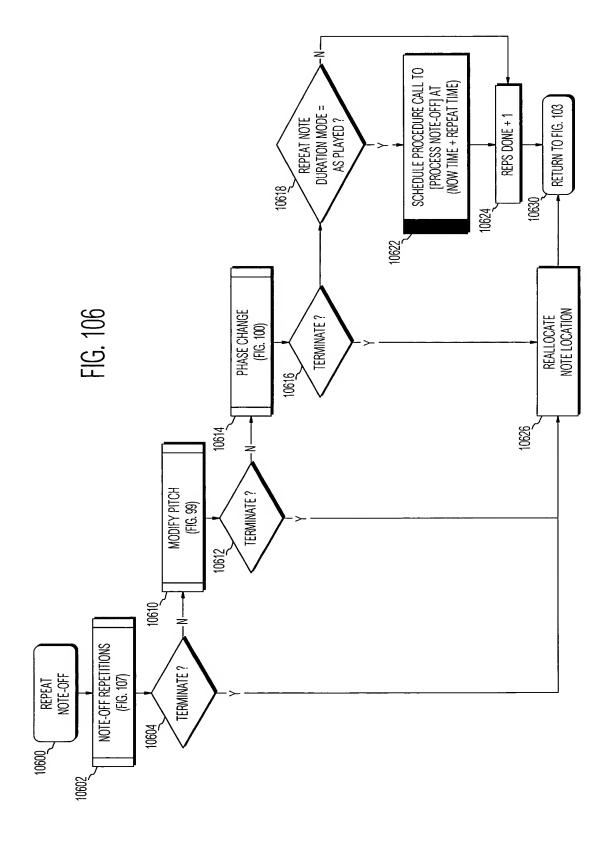












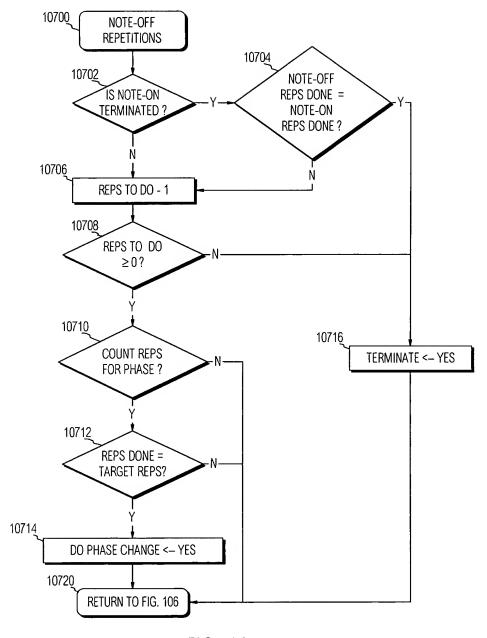


FIG. 107

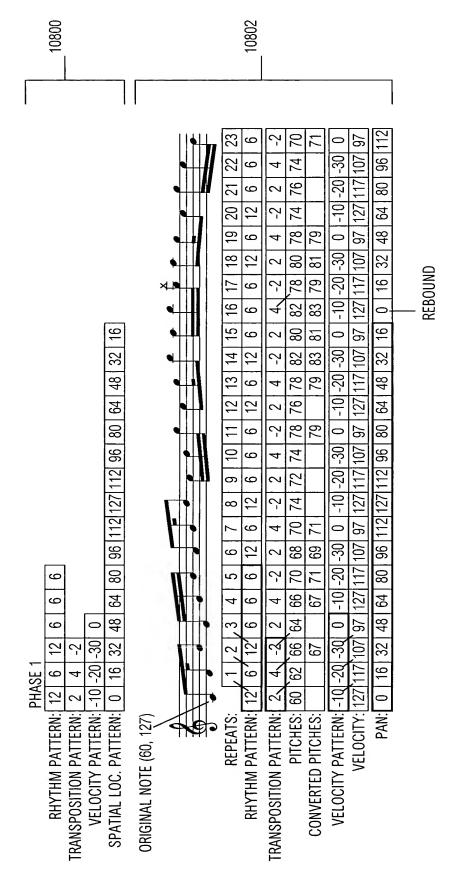


FIG. 108

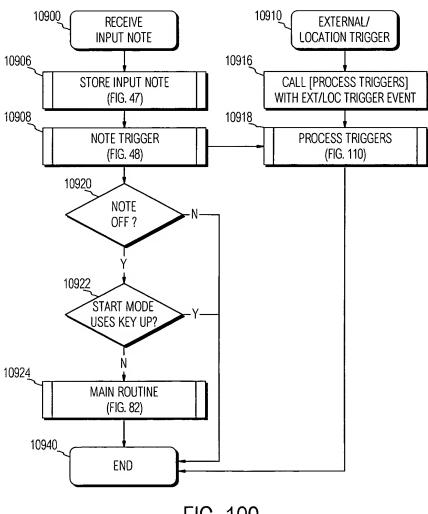


FIG. 109

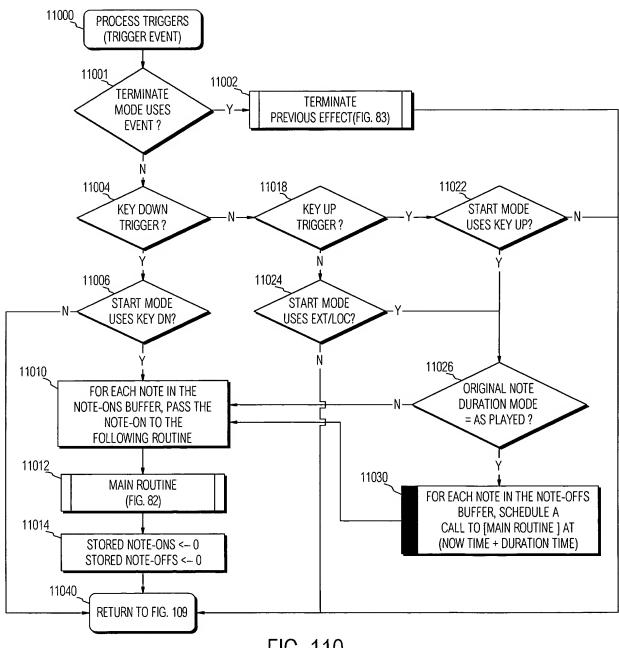


FIG. 110

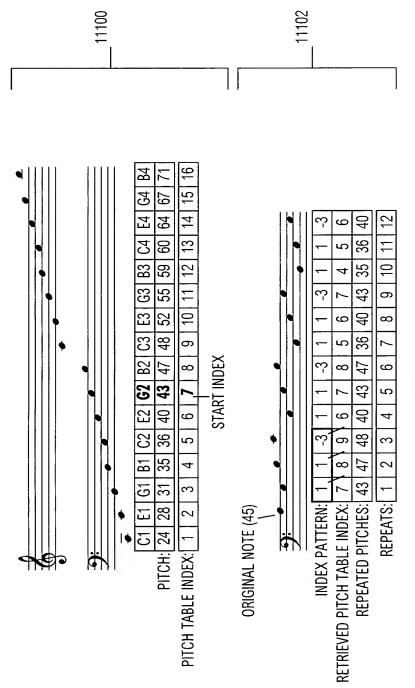


FIG. 111

